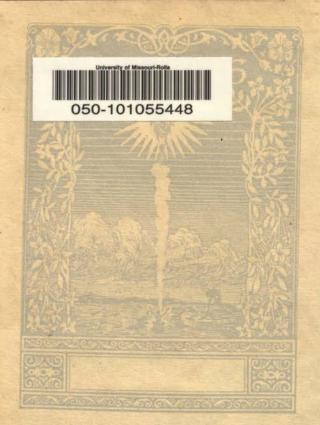


Bab-61

THERE REPERENTED TO THE PROPERTY.



The CLAIR V. MANN COLAECTION Rolla, Mo. Item Ho. Bab-061

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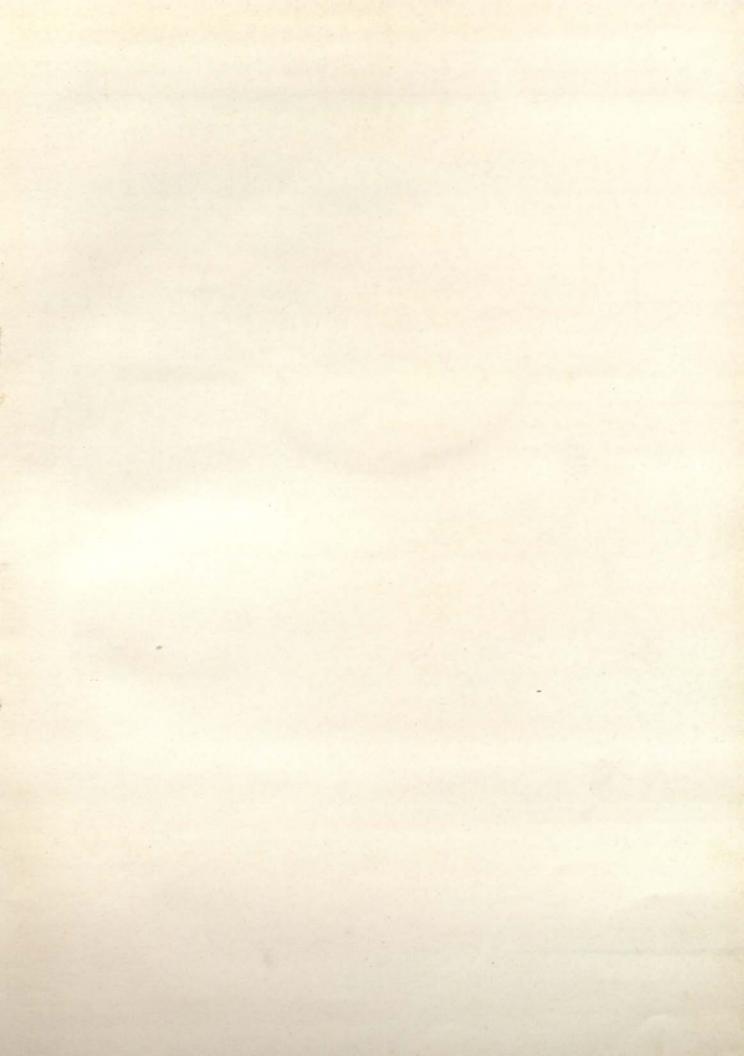
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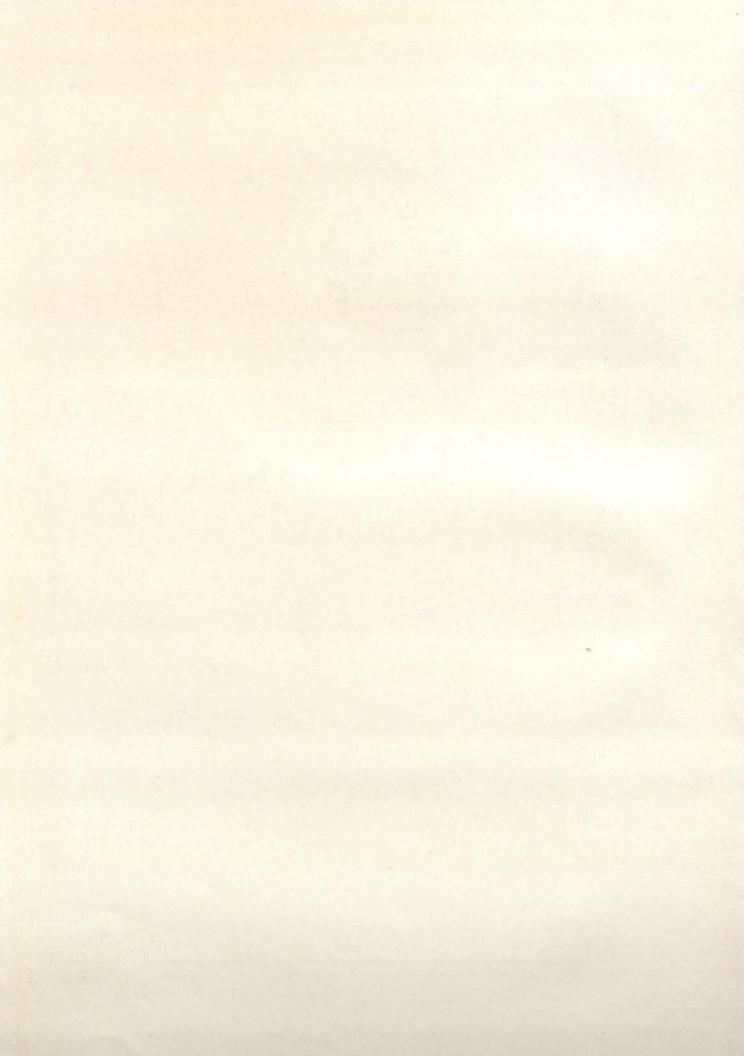


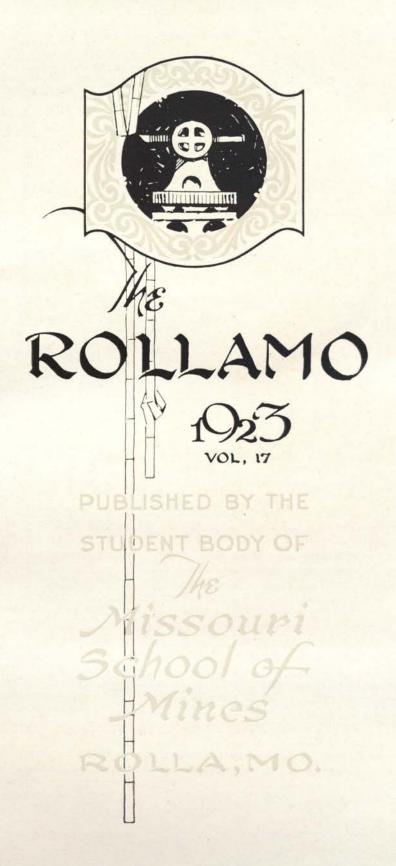
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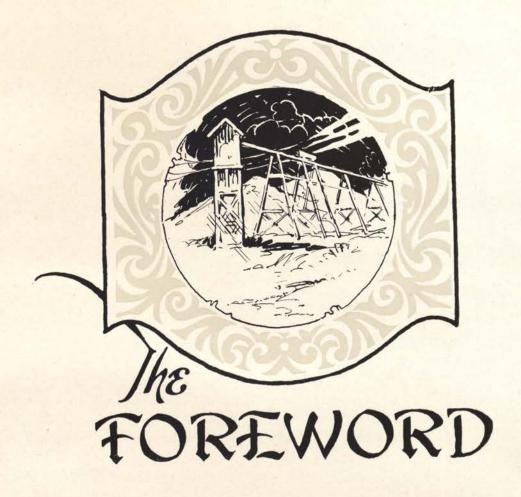
Pro F. Barnwell. Byt of Grology bys. M 1973











To assemble between the covers of a Rollamo data covering all the important events in any school year is, under most favorable circumstances, something of a task. The production of this, the seventeenth, edition of the Rollamo has been a most difficult task, owing to circumstances which well nigh threatened to prevent its appearance at all.

Out of these facts has grown the feeling, on the part of those in charge of the publication, that the book is not as fully complete in extent and character as they might wish it to be. However, they have expended their best efforts to produce the best possible piece of work that could be had under the conditions which had to be met.

The hope is, therefore, entertained that herein will be found enough of a resume of the 1922-23 school year to enable each and every student to recall, in after years, at least some of the happy days and events he passed at Alma Mater, and that these memories will grow richer with each passing year, and that the loyalty of each one to M. S. M. will increase in a corresponding degree.

To the extent that these hopes are realized will the Staff feel that the purpose for which the book is written has been accomplished. For its many known and unknown omissions and shortcomings we humbly admit that we are human and prone to make mistakes. We can only add that we have done our best, and leave judgment to be passed on our work by the student body.



The Rollamo Board

Editor-in-Chief, '22
Editor-in-Chief, '23
Business Manager, '22
Business Manager, '23
Secretary
Treasurer
Art Editor
Staff Photographer
Assistant Editor
Assistant Editor

Sophomore Assistants

J. A. ROOD W. F. HAUCK

J. E. SARGENT R. D. WARD

J. R. KUHN



DEDICATION

To Frank Edward Dennie,

Director of Athletics and Physical Education

Because we hold him in the highest regard-

Because we appreciate his unfailing interest in all that pertains to students welfare—

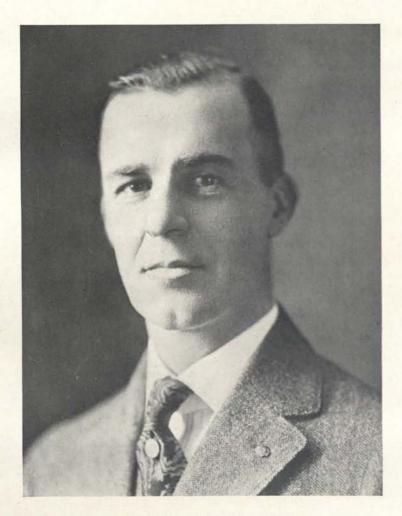
Because we admire his clean-cut sportsmanship and his straightforward, manly character—

Because he is our tried and true friend, our counselor in trouble and under difficulties—

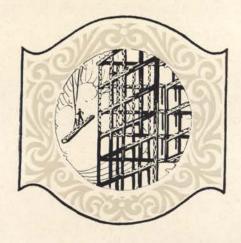
Because he is our leader in all school sports, but not in them alone—

We dedicate this issue of the Rollamo to Coach "Spike" Dennie.





FRANK EDWARD DENNIE



In Memoriam

AUSTIN LEE MCRAE

Austin Lee McRae was born in the state of Georgia, October 25, 1861. He was graduated from the University of Georgia in 1881, and with the degree of Doctor of Science from Harvard in 1886. From 1886 to 1889 he was connected with the United States Signal Service. In 1891 he became Professor of Physics in the Missouri School of Mines, which position he held, with the exception of an interim of five years, until his death. In 1915 he was appointed Director. In 1920, because of ill health he retired from active connection with the school as Emeritus Professor of Physics. He died March 18, 1922. He was a member

Physics. He died March 18, 1922. He was a member of Chi Phi fraternity, of the honorary scholarship fraternities of Tau Beta Pi, Phi Beta Kappa and Phi Kappa Phi, a fellow of the American Society for the Advancement of Science, member of the Society for the Promotion of Engineering Education and of the Institute of Mining Engineers, and also was one of the Sons of the American Revolution. He was a very active member of the Masonic order, and held some of the highest offices in that body with great distinction.

These are the mere facts in his life; but in the case of Dr. McRea the incidents in his life mean little. His spirit is the important thing, and the spirit has no biographer. Only those who knew him can testify adequately to his probity of character and the helpfulness of his life. The student

who sought his suggestion and guidance never went away empty. "A friend to everyone and an enemy to no man" would be a fitting epitaph for him, who through all the years shed a benignant influence upon the students of the School of Mines. It could truly be said of Dr. McRae that he taught many a boy "how to be a man."



In Memoriam

PROFESSOR GUY HENRY COX

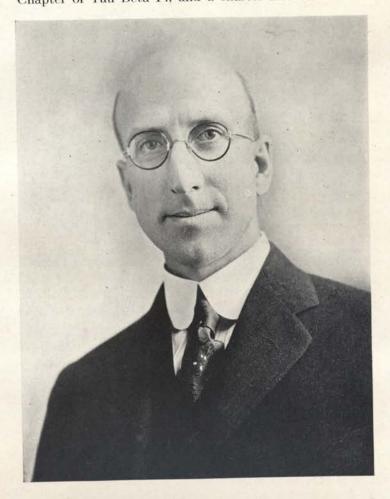
A thorough teacher; an able organizer; a man of practical affairs, and yet a friend to research; and withal a loyal supporter of the Missouri School of Mines—such will always be our memory of Doctor Cox.

Not only had he been a familiar and respected figure for many years on the M. S. M. campus, but he had established for himself a professional

reputation of national importance. He was widely known through his publications, and was a member of several professional societies—The American Institute of Mining and Metallurgical Engineers, The American Association of Petroleum Geologists, The Society for the Promotion of Engineering Education, and The Geological Society of America. He was an honorary member of the Beta of Missouri Chapter of Tau Beta Pi, and a charter member of the Missouri School of Mines

Chapter of Phi Kappa Phi.

Although Doctor Cox had severed his official connection with the School of Mines, he had still continued a strong factor in our influence in the Southwest, and in his death the school has suffered an irreparable loss.



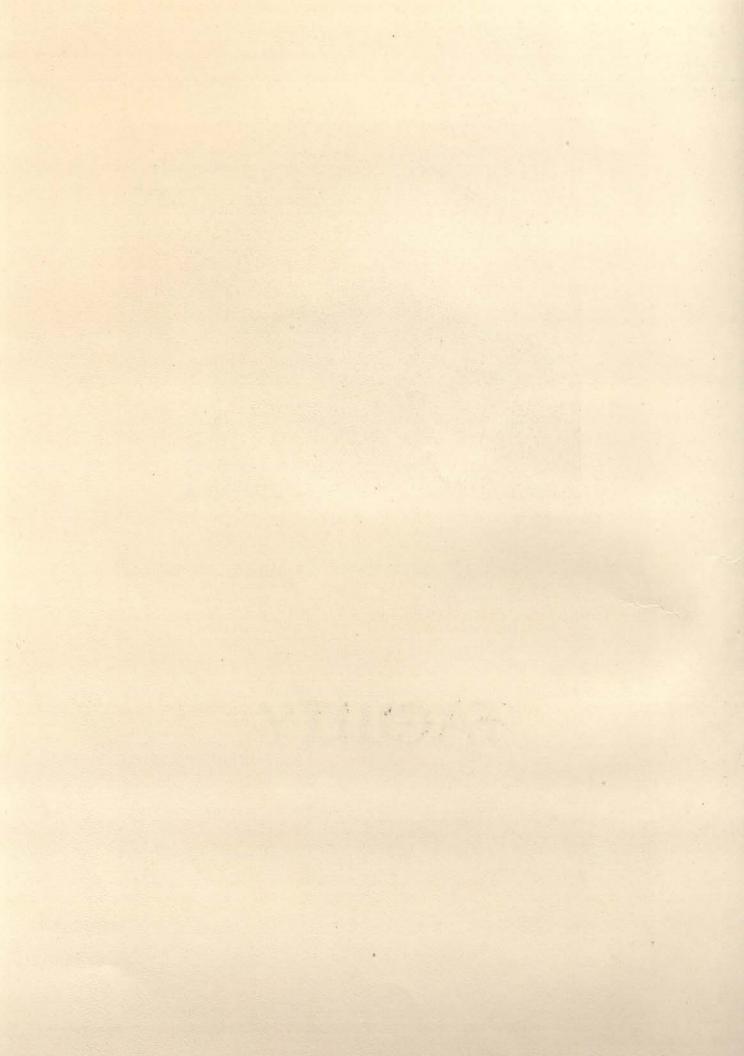


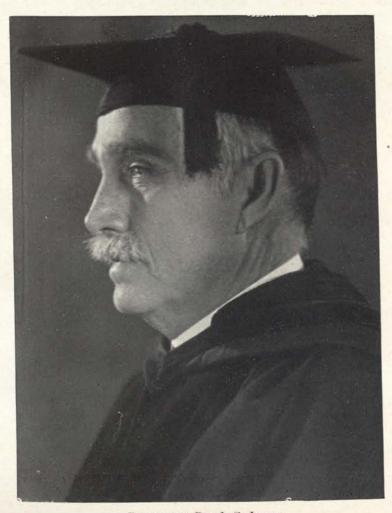


- 1 Faculty
- 2 Classes
- 3 Athletics
- 4 Organizations
- 5 Activities
- 6 Ads



FACULTY





PRESIDENT, DR. J. C. JONES

O N January third, 1922, Dr. John Carton Jones, then acting President of the University, was given the endorsement so well deserved by his efficient guidance of the institution after the reins of government were laid down by Ex-President Albert Ross Hill. On that date Dr. Jones was made President of the University by the Board of Curators to the satisfaction and delight of the student body who knew him so well. Our new President's motto is, "Team Work Wins," and we wish to state that, if he is looking for team work he will find no more willing or eager team mates than the student body of the Missouri School of Mines and Metallurgy.

team mates than the student body of the Missouri School of Mines and Metallurgy.

Dr. Jones was born July 30, 1856, on a farm near Sharpsburg, Kentucky, of Welch and Dutch parentage. He received his grade and high school training in the Frankfort, Kentucky, schools. In 1879 he graduated from Westminster College at Fulton, Missouri, and accepted the position of professor of Latin at that institution. In 1882, he came to the University of Missouri as assistant professor of Latin and was given a year's leave of absence for graduate work at Johns Hopkins University. By 1891, he was made head of the department of Latin, and in 1895-1896 he was granted a leave of absence for study and investigation abroad, which he spent at Leipzig, Germany. Upon his return he was appointed the first dean of the College of Arts and Science, which position he has held since that time. Once more, in 1903, he studied in Munich, Germany. Later he became Vice-President of the University.

He is a member of the Presbyterian Church and the following societies and clubs: Columbia Country Club, Masonic Fraternity, Beta Theta Pi Fraternity, the American Philological Association and the American Archeological Institute.

Such an introduction bespeaks the high qualifications which attend our new President, and the future good fellowship between the student body and such a leader cannot but be assured.

1923



DR. CHARLES H. FULTON

Thela Della Chi, Sigma Xi, Tau Bela Pi, Phi Kappa Phi.

Director, Missouri School of Mines.

E. M., School of Mines, Columbia, 1897; D. Sc., University of South Dakota, 1911; Member American Institute of Mining and Metallurgical Engineers; American Electrochemical Society; Assistant in Assaying, Columbia, 1898-99; Instructor in Metallurgy, University of Wyoming, 1899-1900; Professor of Metallurgy, South Dakota State School of Mines, 1900-05; President, South Dakota State School of Mines, 1905-11; Professor of Metallurgy, Case School of Mines, 1905-11; Professor of Metallurgy, Case School of Applied Science, 1911-20; Director, Missouri School of Mines and Metallurgy, 1920.

1923

Board of Curators

George L. Edwards	St. Louis
FRANK M. McDavid	Springfield
E. Lansing Ray	St. Louis
G. E. Muns	Montgomery City
P. E. Burton	
MILTON TOOTLE, JR	
S.L. Baysinger	75 11
H. J. Blanton	Paris
James E. Goodrich	

Officers of the Board

James E. Goodrich	President
P. E. Burton	
Leslie Cowan.	Secretary
R. B. PRICE	Treasurer

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of the School of Mines and Metallurgy

S. L. Baysinger, Chairman	Rolla
FRANK M. McDavid	Springfield
G. E. Muns	ar . Our
EDWARD KAHLBAUM, Secretary	Rolla
E. J. Campbell, Treasurer	

Faculty



ELMO GOLIGHTLY HARRIS

Professor of Civil Engineering.

GEORGE REGINALD DEAN

Professor of Mathematics and Registrar.



CARROLL RALPH FORBES

Professor of Mining.



JOSEPH WAYNE BARLEY
Professor of English and Modern Languages.



WILLIAM DEGARMO TURNER

Professor of Chemistry.



LEON ELMER WOODMAN

Professor of Physics.



CHARLES YANCEY CLAYTON

Professor of Metallurgy and Ore Dressing.



CHARLES LAURENCE DAKE
Professor of Geology.



R. O. JACKSON

Professor of Mechanical Engineering.



WARREN SCOTT BOYCE Professor of Economics.



WALTER LYMAN MEDDING
Professor of Military Science and Tactics.





HENRY HORTON ARMSBY

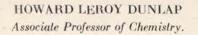
Associate Professor of Civil Engineering
and Student Adviser.

FREDERICK WILLIAM SHAW Associate Professor of Hygiene and Student Health Adviser.





FLOYD HILL FRAME
Associate Professor of Electrical Engineering.







GARRETT A. MUILENBURG Associate Professor of Geology and Mineralogy.



Rollamo



1923

CLAIR VICTOR MANN
Associate Professor of Drawing.



MARTIN HARMON THORNBERRY Associate Professor of Metallurgical Research.



CLARENCE EDWARD BARDSLEY
Assistant Professor Topographical Engineering.



KARL KENNETH KERSHNER
Associate Professor of Chemistry.



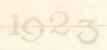
EUGENE LEE JOHNSON Assistant Professor of English.



RYLAND FLETCHER RATLIFF

Assistant Professor of Physics.







OSCAR ADAM HENNING Assistant Professor of German.

JOSIAH BRIDGE Assistant Professor of Geology.





ISRAEL HERRICK LOVETT Assistant Professor of Electrical Engineering and Secretary to the Faculty.

CLARENCE JOHN MONROE

Assistant Professor of Chemistry.





WILLIAM WESLEY
WANAMAKER
Assistant Professor of Military Science
and Tactics.

JAMES HENRY UNDERWOOD
Assistant Professor of Shop.

Rollamo



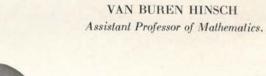


JOE BEATY BUTLER
Assistant Professor of Civil Engineering.



ARTHUR SCOTT

Instructor in Military Science and Tactics.





CELESTIN PIERRE CAMBIAIRE
Instructor in Spanish and French.



DONALD FOSTER UPDIKE Instructor in Metallurgy.

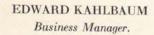


LEWIS L. McKIMMEY
Assistant to Professor of Military Science
and Tactics.





T. G. MAC CARTHY Instructor in Civil Engineering.





WESLEY BARRINGTON MILLER Assistant Professor of Mechanical Engineering.





ROY O. ERICKSON Instructor in Drawing.

 $\begin{array}{c} \text{EDITH CARRINGTON JONES} \\ \textit{Librarian}. \end{array}$



MONTIE E. LUM Co-ordinator, Veterans Bureau.



VICTOR KOPPLE FISCHLOWITZ Assistant Professor of Mathematics.

WALTER CHARLES ZEUCH Assistant Professor of Highway Engi



Assistant Professor of Highway Engineering.



THADDEUS
THORNDIKE RANNEY
Instructor in Topographic Engineering.

GEORGE F. BARNWELL Instructor in Geology.



HARVEY ODEN GARST
Professor of Highway Engineering.





KARL WILLIAM HEIMBERGER
Instructor in Highway Engineering.

JAMES COULSON HARPER Instructor in Highway Engineering.





ERNEST E. DECKER

Assistant in Civil Engineering.

Other Officers

Business Manager EDWARD KAHLBAUM, ROBERT RICHMOND DICKERSON Superintendent of Building and Ground Secretary to the Director EDITH CARTER JOHNSON Assistant Librarian Stenographer ELIZABETH MONTGOMERY Stenographer Eda May Underwood Ella Hart Stenographer Clara Bowen Stenographer GLADYS LOVE COPE......Stenographer ... Stenographer Eleanor Howerton Parkhurst..... Assistant in Library Stenographer, Veterans' Bureau ADA GREGG.... Stenographer

Staff of the State Mining Experiment Station

Co-operating with the Bureau of Mines.

MARTIN HARMON THORNBERRY	
WILLIAM McKINLEY KAHLBAUM	
Joseph Henry Bowen	Master Mechanic
J. L. Gregg	
Mabel Zeuch	Slenographer

The Mining Engineer

Tune: "Son of a Gambolier."

I wish I had a barrel of rum,
And sugar three hundred pound,
A college bell to mix it in,
A clapper to stir it round,
Like every honest fellow
I take my whiskey clear,
I'm a rambling wreck from
Rolla Tech,
A Mining Engineer.

CHORUS

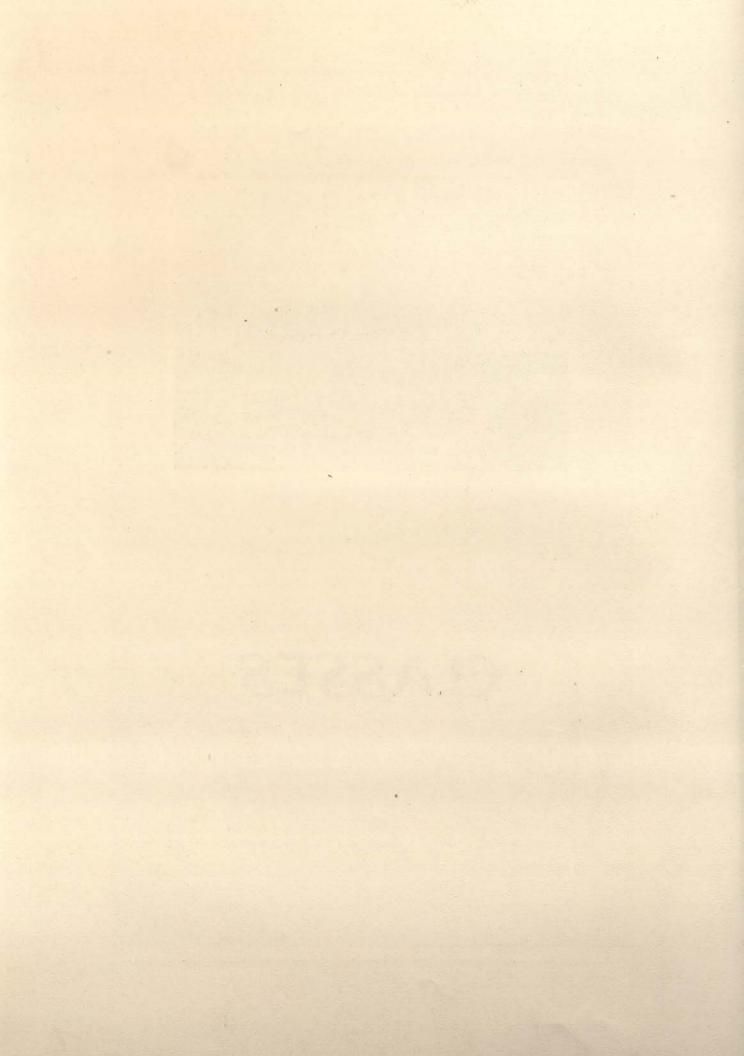
A mining, mining, mining,
Mining, mining engineer,
A mining, mining, mining,
Mining, mining engineer,
Like every honest fellow
I take my whiskey clear,
I'm a rambling wreck from
Rolla Tech,
A Mining Engineer.

I wish I were old Moses,
Down in the promised land,
I'd strike the rock for whiskey,
To quench my thirsty band,
Like every honest fellow,
I take my whiskey clear,
I'm a rambling wreck from
Rolla Tech,
A Mining Engineer.

I wish I had a daughter,
I'd dress her up in green,
And send her down to Springfield,
To coach the Drury team;
But if I had a son, sir,
I'll tell you what he'd do,
He'd say to hell with Drury
Like his daddy used to do!



CLASSES



Senior Class 1923

CONCLUDING four stormy years within the portals of the Missouri School of Mines and Metallurgy, University of Missouri, Rolla, Mo., the Class of 1923 passes on (or flunks) down the dusty corridors of school history among the "mossbacks," has-beens, and other alumni. She does so, moreover, with a most poignant sense of failure—dismal, disheartening and utterly damning failure. There can be no equivocation, depreciation, reservation, or even integrain the matter—1923 has failed. Each year, as was his wont, the (supposedly) clean-shaven underclassman has gazed in awe and admiration upon the senior's hairy mug—

Like some fair flag unfurled to the breeze,
The flowing mustache and prolific beard
Waves in the wind or tangles in the trees,
And beckons him along the weary, four-year trail.
"Some day," he sighs, "I, too, shall sprout a crop of whiskers free,
With undulating side-burns, isolate my ears,
And grow a beard so that inferiors may see
The ancient freeman's badge of dignity."
As Omar would have said, "Oh, that were paradise enow!"

But when the famous Class of '23 put all its razors on the shelf last summer and awaited nature's course in smiling confidence, no whiskers came to decorate each barren map. The d——n things wouldn't grow! 'S fact, some few men have exfoliated superficially and satisfactorily, but the average senior has fizzled—drawn a blank.

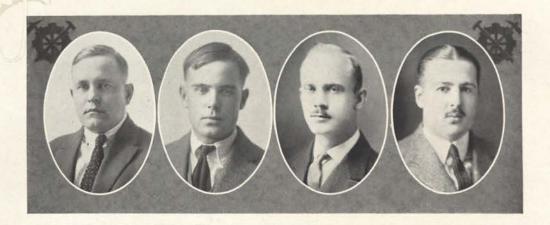
The high standard of attainment in athletics and other student activities (with and without Armsby's now famous "O. K.") has been fully maintained by the class this year, as always. And scholastically! '23 has ever been a veritable stronghold for the ideals of American scholarship. Through thick and thin, harassed on every hand, and beset by: Ranking systems, grading by letters and hieroglyphics, by numbers and the logarithyms thereof (Naperian and base 10), by grade points, student activity points, and pencil points, by 90-hour laws, change of curriculum, change of requirements, change of venue, and change of life, by tardy marks, late marks, naughty marks, German marks, absences (both time slaughter and with intent to prolong holidays), buts, and total disappearances, by advanced standing, intermediate sitting, and negative hours, by quizzes, examinations, preliminary surveys, and crude approximations; in short, by red tape, mob rule, and martial law, the class has yet held its devotion to the gleaming lamp of knowledge inviolate, and has crashed through the tangled undergrowth to ultimate academic achievement.

In lighter vein, the Class of '23 indulged itself by an hilarious holiday known as the Senior Trip, and which proved to be the snake's propeller. A detailed description of this pleasant little picnic may be found elsewhere in the panoramic pages of this austere volume, but space must be found here as well for a brief mention of "Blackjack Joe" Guiteras and his concrete ore pillars. Some of the more serious men so enjoyed the trip that they insisted upon making it a second time.

Officers

Rollamo

W. S. Frame	President
H. S. Pence	Vice-President
A. A. BOYLE	Secretary
R. E. MURPHY	Treasurer



WM. ALTON
CIVIL ENGINEERING

Class of '23 Columbia, Mo. JEAN PAUL BRYAN CLASS OF '23 CIVIL ENGINEERING INDEPENDENCE, MO.

L'Abri Club; A. A. E.; Vocational.

"Timberfoot" left a leg in France, but returned with all of his good nature. Bill is a most consistent oil-burner, and also addicted to tonsilitis, which he manages to contract at most opportune times. Sigma Nu; M. S. M. Players; Editor-in-Chief of 1922 Rollamo; Senior Council.

"Barney Google" can get into more trouble in a day than the average man can in a week.

PAUL MACF, BROWN CIVIL ENGINEERING

Class of '23 Kirkwood, Mo.

Bonanza; A. A. E.

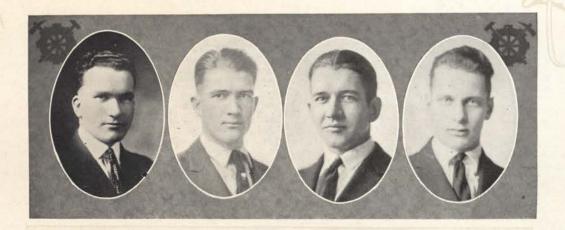
"Pap", sometimes known as "Little Joe" or "the meanest man in town," has a standing date with "Rudy" Kasel for frequent sallies among these hills looking for big bear.

STEPHEN M. BURKE, Jr. Class of '23 Mine Engineering St. Louis, Mo.

Prospector; Class Secretary '22; Miner Board '20-'21-'22-'23; Editor-in-Chief '22; A. I. M. M. E.; Mo. M. & Met. Ass'n; Order of I. K. K.; Mercier Club, S. T. K.; Satyr.

"Steve" has been active, especially politically, since his debut at M. S. M. According to his time-honored opponents, "Field-Marshall" has an army of political specialties.





Met. Ass'n.

Met. Ass'n.

HENRY C. BUSER CLASS OF '23
MINE ENGINEERING WEBSTER GROVES, Mo.
Grubslaber: Sigma Gamma Ensilon: Mo. M.

Grubstaker; Sigma Gamma Epsilon; Mo. M. & Met Ass'n; "M" in Football, '19; Miners "M" Club.

H. C., the quiet and industrious chap from Webster Groves made one splash into Rollie's society, and the waves haven't stopped roaring yet. E. TAYLOR CAMPBELL CLASS OF '23
MINE ENGINEERING KANSAS CITY, Mo.
Independent; M. S. M. Players; Mo. M. &

The polar bear came to us from out of the cold at the beginning of his Junior year. While here he gained fame at winter swimming.

CAMPBELL R. CAMERON CLASS OF '23 MINE ENGINEERING MCALESTER, OKLA.

Kappa Sigma; Pipe and Bowl Club; Miners Cotillion Club; Square and Compass.

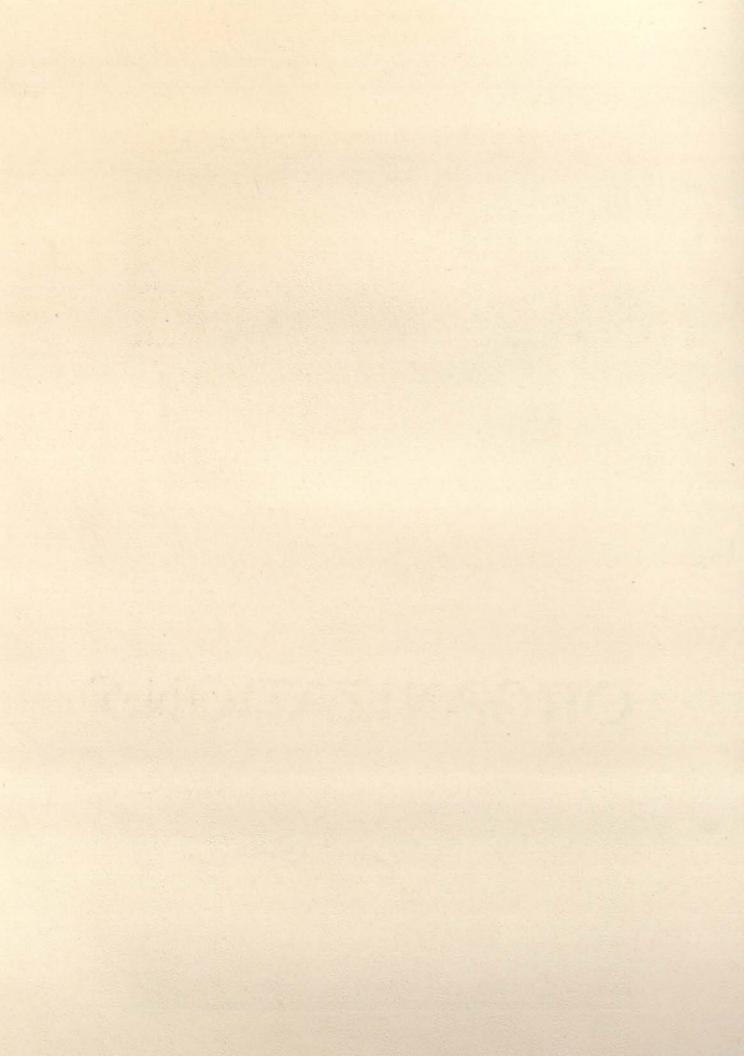
"Pluto" has always made his best grades in social lab, although he ranks rather high in baseball. GLEN ANGUS DOOLEY CLASS OF '23
MINE ENGINEERING JOPLIN, Mo.
Sigma Nu; M. S. M. Players; Mo. M. &

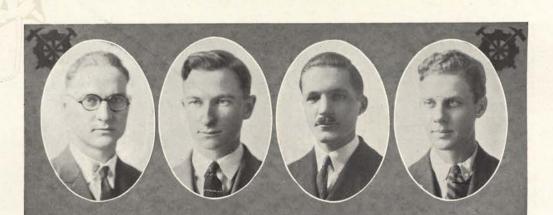
Otherwise known as "Axel". Without him our student advisor's office would be a total failure. Admits he has the most efficient Ford in Rolla, 99.44 per cent pure.





ORGANIZATIONS





E. L. FIPPS

Class of '23

MINE ENGINEERING

WILLIAM P. GATTS Class of '23 HANNIBAL, Mo. CHEMICAL ENGINEERING

SALEM, Mo. Independent; S. T. K.; Mo. M. & Met. Ass'n.

Lambda Chi Alpha; Thela Tau; Square and Compass; Diphenyl Dozen; Local Sec. A. C. E., American Chemical Society.

The boy from Salem-well, everybody knows him, so why write about him.

Bill spends part of his time defending the chemists, and the remainder of it admiring his mustache, which he claims is the best in the senior class.

WAYNE SHANNON FRAME CLASS OF '23 CIVIL ENGINEERING SALESVILLE, MO.

Independent; Tau Bela Pi; Phi Kappa Phi; Thela Tau; Bus. Mgr. Athletics, '22-'23. Student Council '22-'23; Rollamo Board '22.

One of the shining lights of the C. E. Department.

D G. GIBSON

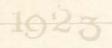
CLASS OF '23

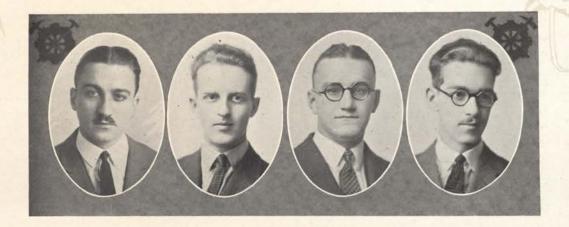
MINE ENGINEERING WEBSTER GROVES, Mo.

Kappa Alpha; Quo Vadis; Satyrs; Mo. M. & Met. Ass'n.

"Toughy" hails from Webster Groves, but is a good fellow in spite of that. The girls all fall for him, perhaps because of his curly hair.







JOHN P. GORDON, Jr. Class of '23 Mine Engineering Jefferson City, Mo. Sigma Nu; Thela Tau; Salyrs; M. S. M. Players; Mo. M. & Mel. Ass'n.

"Birdie" came here with ambition to be a city slicker. So far as we know, he still has the ambition.

NEAL M. HAM

Class of '23

METALLURGY

MONTGOMERY, ALA.

Kappa Sigma; Pan Hellenic Council; Booster's Club; Mo. M. & Met. Ass'n; Miners Cotillion Club.

"Puss" is considering joining the Traveling Men's Ass'n. He makes Rolla about once a week, but his headquarters are in Springfield

JAMES L. GREGG

CLASS OF '23

METALLURGY

INDEPENDENCE, MO

Kappa Sigma; Sigma Gamma Epsilon; Tau Beta Pi; Phi Kappa Phi; Square and Compass; Mo. M. & Met. Ass'n.

Jim is a gun in metallurgy, and is Thorny's left-hand man in the experiment station. He now has one steady job at least, namely, keeping the homes firing burning.

G. G. HARRIS

CLASS OF '23

MINE ENGINEERING

KANSAS CITY, Mo.

Independent; Mo. M. & Met. Ass'n; M. S.

M. Players.

Real pebbly puppy, who will some day be a rock hound.





P. J. HEGWER

Class of '23

MINE ENGINEERING

CLASS OF '23

SARCOXIE, Mo.

MINE ENGINEERING

MICHEAL V. HEALEY

MACON, Mo.

Independent; Mo. M. & Met. Ass'n.

Quiet, but a demon with one of Henry's Lizzies.

Independent; 2d Lieut. U. S. Air Service; A. I. M. & M. E.; Mo. M. & Met. Ass'n. Mercier Club; S. T. K.

Lieut. M. V. Healey received a four-year furlough from the Air Service to take the Rolla Rest Cure—and incidently a degree.

B. F. HOOVER

CLASS OF '23

MINE ENGINEERING

TRENTON, Mo.

Independent; "M" Football '22; Track '21'22; "M" Club; S. T. K.

"Herb" came to M. S. M. from the farm. He later began ploughing up Jackling field and did so well at it that Spike and the football coaches sent him to other schools who had fields to plough.

HENRY G. HUBBARD

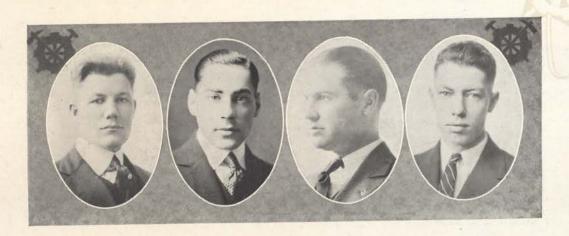
CLASS OF '23

MINE ENGINEERING CRESCENT CITY, FLA.

Independent; S. T. K.; A. I. M. M. E.; Mo. M. & Met. Ass'n; "M" in Track '21; Class Historian '21-'22-'23.

Slowest man in school, yet holds the record for the two-mile run. Introduced cross-country running at M. S. M.





JULIAN G. HUCKINS CLASS OF '23
MINE ENGINEERING KIRKWOOD, MO.

Lambda Chi Alpha; Quo Vadis; A. A. E.; Vocational.

"Skipper" spent most of his time arguing about the relative merits of the east and west coast navies, but he couldn't convince anyone. He also finds time to run into St. Louis for the week-end. After seeing the reason we can't blame him.

VERNE G. JOSLIN CLASS OF '23 MECHANICAL ENGINEERING ROLLA, Mo.

Lambda Chi Alpha; Square and Compass.

How Verne managed to keep up his fussing and his school work at the same time is more than we can figure out. He had his future all laid out for him, so he didn't have to depend on his college education.

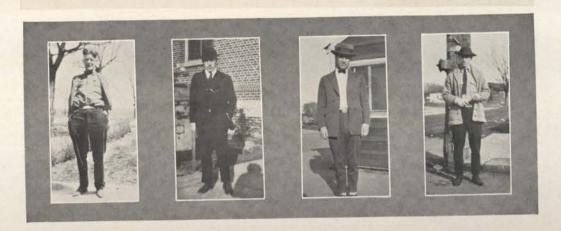
ARMIN BRENE JEWELL Class of '23 Chemical Engineering Tulsa, Okla. Independent; Diphenyl Dozen; Phi Kappa Phi.

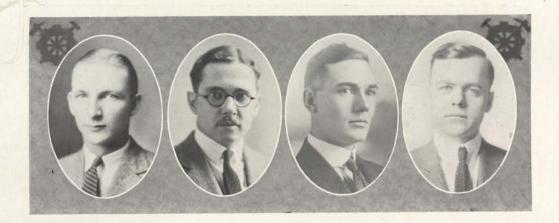
"Abie" got E's without effort by sleeping near his books. Then the great disturbance—getting married, the movies and a dance, all entered his life as one thing. Now he sleeps no more.

CHARLES B. KALEY CLASS OF '23
MINE ENGINEERING GOUVENOR, N. Y.

Lambda Chi Alpha; Quo Vadis; Sigma Gamma Epsilon; Mo. M. & Mel. Ass'n; A. A. E.; "M" in Basketball '23.

"Chuck" spends more time reading the cheese market reports than he does in reading Peele. Never gets mad, but will air his views if he has to.





RUDOLPH G. KASEL Class of '23
CIVIL Engineering Washington, Mo.

Prospector.

"Rudy" Kasel, A sea-going "gob" from Washington, Mo. Attitude towards life reflected in the expression "Come clean, Buster, come clean!" W. O. KEELING CLASS OF '23
CHEMICAL ENGINEERING ROLLA, Mo.
Independent; Diphenyl Dozen; M. & M.
Ass'n.

Generally referred to by his last name. Has played first base on the faculty baseball team. Made his letter in baseball in 1916, when the school had a baseball team supported the same as football.

WM. MILLER KEELING CLASS OF '23
METALLURGY FALLS CITY, NEB.
Pi Kappa Alpha; Theta Tau; A. I. M. & M.
E.; Mo. M. & Met. Ass'n.

After one year at William Jewell, Bill decided to be a Met. Bill would like to own a mustache, but it seems "she won't let him."

WILLARD C. LAY

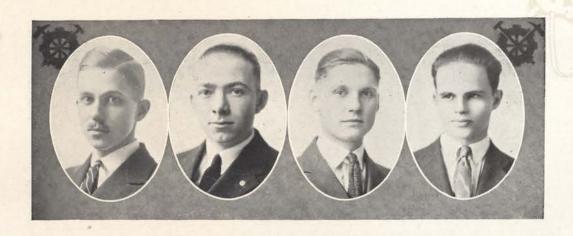
MINE ENGINEERING

Independent; Mo. M. & Met. Ass'n;

A. A. E.

We all know Lay is conscientious, but have often wished that he would not try to raise the standard of the class by talking to the Profs after class.





ROY ALEX. LINDGREN CLASS OF '23 METALLURGY CHICAGO, ILL.

Lambda Cl i Alpha; Sigma Gamma Epsilon; Tau Beta Pi; Pan-Hellenic Council '22; Mo. M. & Met. Ass'n.

Roy claims the distinction of being the only man in Rolla to get six letters in the same day from the same girl. He left Rolla's four hundred, but it must have been just through modesty.

Independent; Mo. M. & Met. Ass'n.

Spends most of his time in Cuba. Wonder

HARRY C. MAREK

CLASS OF '23

MINE ENGINEERING SIOUX CITY, IOWA.

Independent; Order of I. K. K.; Mo. M. & Met. Ass'n.

Harry hails from "Soo City." Says they have street cars there. Intended to specialize in geology, but soon found that his system did not contain enuf, I presume.

P. F. MARTYN

why?

CLASS OF '23

MINE ENGINEERING

CUBA, Mo.

E. H. McALPIN MINE ENGINEERING CLASS OF '23

HAILEYVILLE, OKLA.

Independent; Mo. M. & Met. Ass'n.

Mack has been here two years and in that time set a record for fussing.





FELIX Z. MEEKS CLASS OF '23 Mine Engineering Marshall, Mo.

Bonanza; Mo. M. & Met. Ass'n.

"Zolly" is a steady ship on an ocean of Ozark Mule. When not cruising he lets Prof. Forbes help him put out mine surveying. DONALD SPEED MOSBY CLASS OF '23 CHEM. ENGINEERING JEFFERSON CITY, Mo.

Bonanza; Salyrs; Vice-Pres. Junior Class '21-'22; Rollamo Board '21-'22; Diphenyl Dozen; M. S. M. Players; Mercier Club.

"Speed" is the bulwark against which so many Sophs pit their strength in quantitative chemistry. Is naturally heartless and turns a deaf ear to passionate pleas of mercy when handing out repeats.

AUGUST F. MOHRI CLASS OF '23

METALLURGY KANSAS CITY, Mo.

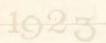
Independent; DeMolay P. M. C.; Mo. M. Met. Ass'n; Glee Club '22-'23.

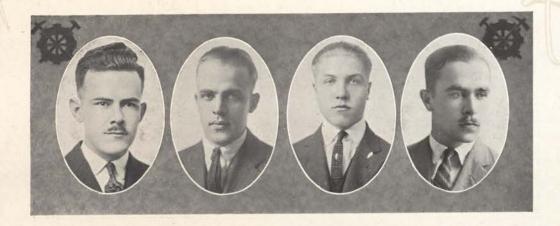
The Duke of nowhere. Doesn't mind spending a little money for pie if Boots is kept in a good humor. Stays in Rolla, but his heart is at K. U. What time is it, Slageye?

FRANK C. MULFORD CLASS OF '23
MINE ENGINEERING KANSAS CITY, Mo.
Independent; Mo. M. & Met. Ass'n; A. I.
M. E.

The owner of a misleading nickname, "Shorty". Almost joined the church at one time, but the competition was too strong and he lost her.







RAYMOND E. MURPHY

Class of '23

MINE ENGINEERING

GALENA, ILL.

Prospector; Tau Beta Pi; Theta Tau; Mo. M. & Met. Ass'n; Class Treasurer '22-'23.

Murphy (Rabbi). No, you're mistaken. He's an Irishman, and furthermore a tegologist—the latter by inclination, if ye plaze.

A. B. PARKHURST MINE ENGINEERING

CLASS OF '23

TULSA, OKLA.

Kappa Sigma; Sigma Gamma Epsilon; Miners "M" Club; "M" in Football '20-'21 22; Student Council; DeMolay.

"Babe" has given three years of hard work on the varsity football line, and we are sorry to let him go back to the dark interior of Oklahoma from which we brought him.

I. K. OWENS

CLASS OF '23

MINE ENGINEERING

St. Louis, Mo.

Kappa Sigma; Pipe and Bowl Club; Miners "M" Club; "M" in Football, '20-'21.

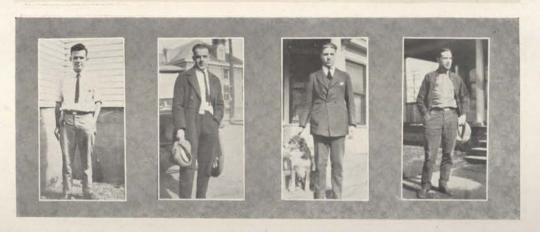
"Hank" proved himself to be one of our hardest hitting backfield men in his two years of gridiron work; but in his second season he took the "big step," and also received a serious accident.

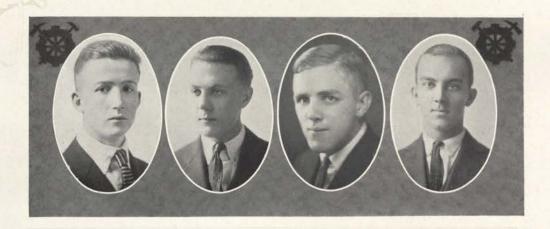
HARRY SIMANTON PENCE CLASS OF '23

MINE ENGINEERING FALLS CITY, NEB.

Pi Kappa Alpha; Thela Tau; Quo Vadis; Pan Hellenic Council '22-'23; A. I. M. & M. E.; Secretary Mo. M. & Met. Ass'n; Vice-Pres-ident Senior Class; Satyrs; Student Council.

Harry is a man of good common sense and whose opinion is respected. He grows a wonderful mustache.





EDWARD PESOUT

Class of '23

St. Louis, Mo-

JOHN MILTON REEVES Class of '23

MINE ENGINEERING

METALLURGY

ANDERSON, IND.

Grubstaker; Mo. M. & Met. Ass'n; "M" in Track '21-'22; Miners "M" Club.

It is quoted by those who made the Junior trip to Butte, Montana, that the Butte and Superior Company dispensed with all tele-phones in their mines as Eddie with his famous line was quite capable of handling the job.

Prospector; Mo. M. & Met. Ass'n.

Reeves, alias "Chester Gump," the greatest impromptu speaker in M. S. M. Can tell in advance how much you will lose at bridge.

H. R. POWERS

Class of '23

MINE ENGINEERING

OSHKOSH, WIS.

CLASS OF '23

Independent; Mo. M. & Met. Ass'n; M. S.

M. Players.

"Windy" by name and nature. Author of the famous statement "Don't cry, little girl, I'll teach you to love me."

METALLURGY

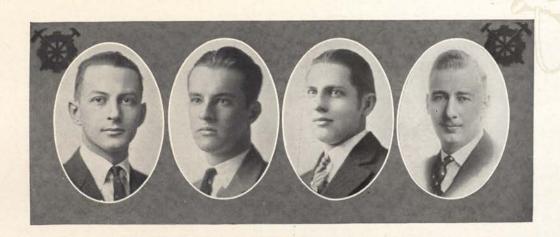
W. E. REMMERS

St. Louis, Mo.

Kappa Alpha; Sigma Gamma Epsilon; Mo. M. & Mel Ass'n.

"Wallie" is one of the "guns" of the Met Department, and also acts as Boots Clayton's orderly on various occasions.





HARRY J. SCHIERMEYER CLASS OF '23 METALLURGY St. Louis, Mo.

Bonanza; Theta Tau; President Mo. M. & Met. Ass'n; A. I. M. E.; Square and Compass.

Harry with the assistance of Boots Clayton and other minor satellites takes care of the Metallurgical side of the campus studies. LAWRENCE THOMY Class of '23 Chemical Engineering St. Louis, Mo.

Independent; Diphenyl Dozen; M. S. M. Players; A. C. S.

"Luke" is a charter member of the "K. K." Explored Frisco Pond in his youth.

KARL AUGUST SCHMIDT CLASS OF '23 MINE ENGINEERING Springfield, Mo.

Sigma Nu; Theta Tau; M. S. M. Booster's Club; Mo. M & Met. Ass'n.

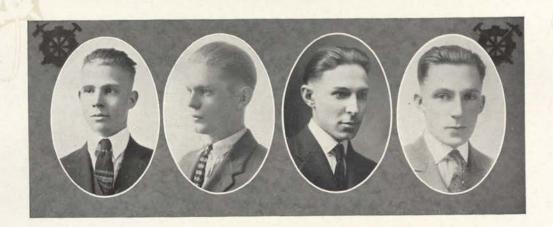
"Gus", widely known in mining circles, especially in Butte and Jerome. Wore out at least three muck-sticks by leaning on them.

WARREN E. TEN EYCK CLASS OF '23
MINE ENGINEERING St. JAMES, Mo.

Kappa Sigma; Satyr; Sigma Gamma Epsilon; Rollamo '21; Square and Compass.

Although his folks live at St. James, "Doc" has spent most of his time in the Golden State, and says he will spend more there as soon as possible.





W. EARL TETER

CLASS OF '23

MINE ENGINEERING

BUNKER HILL, ILL.

EDMUND R. TRAGITT MINE ENGINEERING

CLASS OF '23

ROLLA, Mo.

Grubstaker; Sigma Gamma Epsilon; Square and Compass; Mo. M. & Met. Ass'n.

Say, Earl, are you a Gallager II? If not, how do you account for your cutting that poor little grass widow whom you endeared to our hearts?

Bonanza; Mo. M. & Met. Ass'n.

One of Rollie's favorite sons and therefore needs no introduction.

CHARLES C. TEVIS

CLASS OF '23

CIVIL ENGINEERING

HOLDEN, Mo.

Lambda Chi Alpha; Theta Tau; A. A. E.

After four years Charlie still maintains that anyone can make a living as a C. E. One of the best athletics boosters M. S. M. has ever had.

DAVID FRANCIS WALSH CLASS OF '23 St. Louis, Mo. METALLURGY

Prospector; Tau Beta Pi; St. Pat. '22; Order of I. K. K.; Mercier Club; Mo. M. & Met. Ass'n; A. C. E.; S. T. K.

"Our Dave." A solemn and wise one withal. Will talk on the slightest provocation. Known to have taken a few courses in 'Met' and 'Chem'.







JOE WANENMACHER CLASS OF '23 MINE ENGINEERING STEUBENVILLE, OHIO Independent; S. T. K.

Joe found an M. S. M. Catalog in an empty boxcar at Steubenville, Ohio, and decided that nothing could be worse. Since then he has lived and learned. VANCE H. WEBSTER Class of '23 Metallurgy Anderson, Ind.

Prospector; Tau Bela Pi; Theta Tau; Student Council '22-'23; Order of I. K. K.; Rollamo Board '21-'22; A. I. M. M. E.; Satyr; Mo. M. & Met. Ass'n; Class Secretary '20-'21.

"Webby" is quite a boy and comes from Indiana. Hangs out in the library where he will find you anything but the latest copy of the "Police Gazette."

MARION W. WATKINS CLASS OF '23
MINE ENGINEERING MEMPHIS, TENN.

Sigma Nu; Theta Tau; Miner Board; M. S. M. Players; Pan-Hellenic Council; Athletic Association; "M"; Mo. M. & Met. Ass'n.

Known in Memphis as "Mamie", in Rolla as "Hoss Collar." Has been known to spend as much as sixteen dollars.

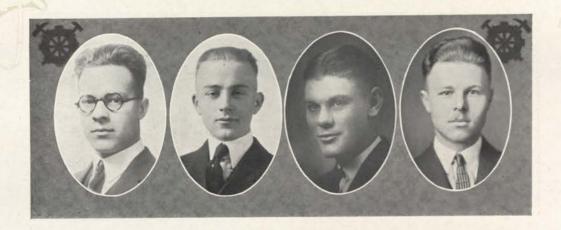
MELVIN POWELL WEIGEL CLASS OF '23 METALLURGY TUSCALOOSA, ALA.

Pi Kappa Alpha; Tau Beta Pi.

"Willie" is the terror of the freshman chemistry classes. He is reputed to have a serious case with a "black-headed woman" some time in the past.



1923



WALTER A. WERNER CLASS OF '23
CIVIL ENGINEERING St. Louis, Mo.

Independent; Tau Beta Pi; Phi Kappa Phi; A. A. E.; Square and Compass.

"Student Assistant Werner"—oh, what a terror to the poor C. E. Frosh—yes, and even some Juniors. JOE WORLEY Class of '23 Elec. Engineering Noblesville, Ind.

Independent; S. T. K.

Joe (Steinmetz) Worley came from Case School about the time M. S. M. fell heir to Doc Fulton and Prof. Jackson.

A. B. WILKERSON, Jr. Class of '23 Mine Engineering Aurora, Mo.

Kappa Sigma; Satyr; Miner Board; Mo. M. & Met. Ass'n; DeMolay.

"Squeak" is a veteran of many hard fought love affairs, but these battles are never fought to the end, for he always sees some other girl at just the critical time. GEORGE A. ZELLER

Class of '23

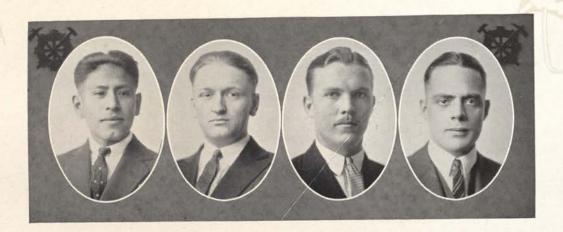
METALLURGY

St. Louis, Mo.

Prospector; Tau Bela Pi; Phi Kappa Phi; Miner Board '21-'23; Square and Compass; Mo. M. & Met Ass'n; A. I. M. M. E.

"Pinkey" Zeller, so named from the delicate tint of his tootsies. Makes frequent and productive raids on the vineyards of St. James and vicinity.





ROBERT C. ZEVALLOS

CLASS OF '23

MINE ENGINEERING CALLIO, PERU

Independent; Mo. M. & Met. Ass'n.

"Bob" traveled some distance to get a social as well as scholastic education.

HENRY EUGENE ZOLLER CLASS OF '23
MINE ENGINEERING TULSA, OKLA.

Sigma Nu; Thela Tau; Tau Bela Pi; Mercier Club; Alhletic Ass'n; Captain Football team '22; President Freshmen Class '20; Mo. M. & Met. Ass'n.

"Hank", "Tin Ear," gets 'em young, treats 'em rough, and tells 'em nothing.

DESIDERIUS ZIMMERMAN CLASS OF '23
MINE ENGINEERING St. Louis, Mo.

Independent; Mo. M. & Met. Ass'n.

A gun of high power, who doesn't look it. Calculus is his specialty. SAMUEL I. ZOOK

CLASS OF '23

MINE ENGINEERING

BUFFALO, KAN.

Kappa Sigma; Miners "M" Club; "M" in football '20-'21-'22; Square and Compass; Mo. M. & Met. Ass'n.

"Sam" spends most of his time waiting for the mail man. He takes a great interest in letters postmarked Des Moines.



Junior Class 1924

WITHOUT some short history of the Class of '24 this book would not be quite complete. You all must admit that everyone looks each year to the mighty Juniors for a bigger and better St. Pats. We did our best and, without trying to pat ourselves on the back, we claim this year's celebration will be remembered for some time to come.

But the class has always taken an active interest in all school activities. From the very first night some of us spent in town, when the murderous sophs patrolled the highways and byways of Rollie, persuading us to seek cover, we have sought to preserve the true Miner spirit. We have our share of Tau Baits at present, and Doc Woodman's Phoy Kappa Phoys will do well to look to some of our members for next year's pledges. Book learnin' is mighty fine we must admit, even though the path of knowledge takes us through Doc Dake's courses on brachiopods and trilobites, and Prof. Frame's thrilling E. E. quizzes, not to mention Boots Clayton's "few simple questions on the metallurgy of lead."

Don't think that all our time has been spent in poring over textbooks. In athletics we have heroes in each sport and are justly proud of them. Next year's football team will be captained by a '24 man, as will the basketball quintet. Wrestling and boxing teams have helped put M. S. M. on the map this year, and here, too, we did our share.

All this is past history; next year will be our last at the good old school. If we have done our bit, have helped preserve tradition, or establish it, and have really done something worth while, our last year can be enjoyed by every man to the utmost. Not that we intend to forget our responsibilities, but being seniors, we can experience "the thrill that comes once in a lifetime."

Officers

M. M. McClelland	President
W. E. SIMPSON	Vice-President
W. S. Wright	
C. E. Stover	

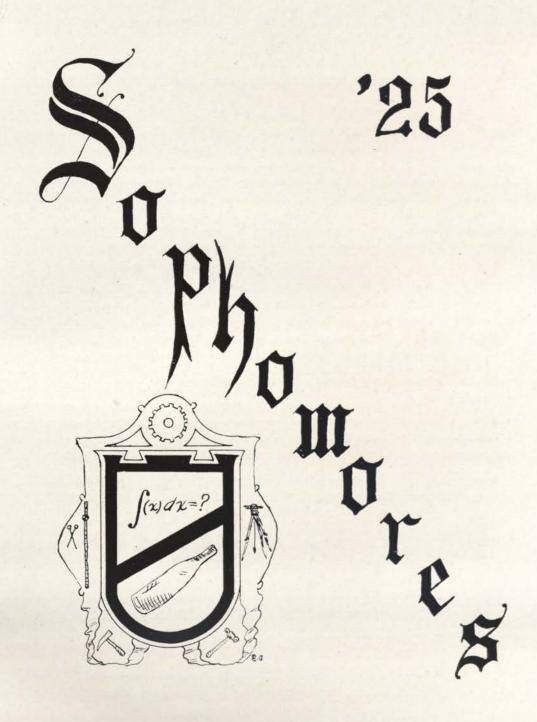


Rollamo

Class Roll

Ahlquist, R. W	Madrid, Iowa.
Andrews, J. L	Rolla, Mo.
ATKINSON, M. L.	Chadwick, Mo.
Веск, Т. Н	Des Moines, Iowa.
Blake, P. L	Lynn, Mass.
BLOUNT, R. A	Potosi, Mo.
Bowers, C. G.	Carrollton, Mo.
Виск, А. Е	Pawtucket, R. I.
CAMPBELL, J. P.	Doniphan, Mo.
Cox, W. E	St. Louis, Mo.
CRUTCHER, W. B	Rolla, Mo.
DROUOT, H. R	Tulsa, Okla.
Евье, О. Н	St. Louis, Mo.
FAIRCHILD, H. V.	Leadville, Colo.
Flesh, D. J.	St. Louis, Mo.
GABLER, G. C.	Coffeyville, Kan.
HAMILTON, R. R.	Rolla, Mo.
Howald, L. S.	Rolla, Mo.
Huckins, J. G.	Senath, Mo.
Hunt, J. O	Hannibal, Mo.
Jett, D. B	St. Louis, Mo.
KEMPER, C. L.	St. Louis, Mo.
KENTNOR, C. B	St. Louis, Mo.
Kessler, H. H.	St. Louis, Mo.
KNIGHT, W. E. H	Joplin, Mo.
McClelland, M. M	Centralia, Mo.
McBride, H. E	Cape Girardeau, Mo.
McCarthy, J	Hannibal, Mo.
Magalis, C. W	Dallas, Tex.
Mikell, C	Augusta, Ga.

MOODIE, D. L.	St. Louis, Mo.
Moore, H.	St. Louis, Mo.
MUENCH R. T.	Washington, Mo.
NAYLOR, A. W	Rolla, Mo.
O'BRIEN, E. B.	Little Rock, Ark.
Runge, A. E.	Glendale, Mo.
Runge, C. A.	Glendale, Mo.
Samples, Bourke	Boonville, Ind.
Schaefer, Jr., C. F	Pittsburgh, Pa.
Schaeffer, Jr., W. A.	Rock Island, Ill.
Schapiro, Leo	Chicago, Ill.
SCHRAMM. H. O.	Elmhurst, L. I.
Scott, P. D	Ashland, Wis.
SIMPSON, W. E	Eldon, Mo.
SITZLER, C. W. B	St. Louis, Mo.
STOVER, C. E.	East St. Louis, Ill.
ŚEIVER, F. L	Salina, Kan.
SUBLETT, IRA	Texarkana, Tex.
TERRILL, J. V.	Moberly, Mo.
THOMPSON, P. F.	Goodland, Kan.
THOMPSON, T. M.	Goodland, Kan.
VANDAGRAFF, C. L	Picher, Okla.
WARRELL, J. R.	Kansas City, Mo.
Wasmund, J. M.	Vinita, Okla.
WALKER, A. W	East Orange, N. J.
WEIMER, W. H	Girard, Kan.
Westgard, J	Rolla, Mo.
WHITTELSEY, C. C	Castlewood, Mo.
WRIGHT, W. S.	Sedalia, Mo.
Underwood, F. J	Rolla, Mo.



1923

Sophomore Class 1925

A FTER a well-earned rest during the summer months, August 25 saw the Class of '25 back in Rollie, prepared to pursue knowledge with the same assiduity that marked its progress through the "Kershner" year. Hazing started off with a bang. Night after night the khaki-clad defenders of M. S. M. traditions and customs patrolled the environs of our fair metropolis, but the Frosh, capably led and magnificently officered, were nowhere to be seen. Late one night, however, they advanced on Rollie in close column and in the sharp engagement which followed proved the truth of the equation: "One Sophomore equals three Freshmen." But the Battle of Cemetery Hill proved another thing, to-wit, that the Class of '25 was out for blood and from that time on it was a losing game for our friendly enemies. In the class fight the crop of '26 was tied hand and foot in a little over twelve minutes. The principal part of the hazing over, the election of class officers took place. There must, of necessity, be losers in every game, but the losers in this instance, contrary to usual procedure, co-operated with the triumphant factions to a man, and it is our proud boast that for unity and solidarity the Class of '25 has no equal.

The smoker was all that a smoker should be, and—well, 'nuff said! Football next occupied our attention and once more our hereditary enemies went down in defeat to the tune of 19 to 0. Two weeks later the peppiest class in school—the class of '41—bit the dust, the score being 12 to 6. Then the Christmas holidays! Days sped by all too quickly, and one fine morning in January a stranger in town might have been tempted to call for the Fire Chief, so great was the volume of dense black smoke issuing from the chimneys of the Assay Lab. Sophomore "Met." had commenced and we were on our way! Four months later came the last of the quizzes and we scattered to the mines, smelters and the oil fields to combine practice and theory. Looking back on our scholastic achievements we are not a little surprised at the way in which we took to one subject in particular—Mineralogy. We liked it fine—so fine in fact that we always tried to anticipate our instructor's wants, and as Shakespeare once remarked to Darwin, "thereby hangs a tale." But old "Mica Schists" was a good scout and will forever have the best wishes of the best bunch that ever entered M. S. M.—The Class of Twenty-Five.

Officers

WILLIAM 'PAT' STACK	President
"CLEM" CINNINGHAM	Vice-President
W. F. HAUCK	Secretary
"HERR VON" HEITMAN	
E. J. GORMAN	"Miner" Correspondent
K. A. Ellison	Sergeant-at-Arms



Rollanio

Class Roll

Algermissen, S. E	Montgomery, Mo.	Ivens, W. E.	Sweetwater, Tenn.
Baker, D. R	Kansas City, Mo.	Кегтн, F. С	Leadwood, Mo.
Behnke, J. D.	Wyoming, Iowa.	KENT, T. B.	Malden, Mo.
BERRY, H. R.	East St. Louis, Mo.	Knoebel, I. G.	Belleville, Ill.
BIRCHER, J. R.	Ferguson, Mo.	LEDFORD, M. A	Tulsa, Okla.
Rossert, H. F.	Rolla, Mo.	Lee, L. Y	Chao Tang, Yunnan, China
Brown, C. R.	Rolla, Mo.	Letts, G.	
Browning, B. L.	Montrose, Mo.	LEVY, M.	
Burgoa, P	San Pedro Potosi, Bolivia.	MARTIN, C. L.	
Burnett, L. L.	St. Louis, Mo.	MARTIN, F. C.	Morris, Ill.
Bush, W. H.	St. Louis, Mo.	MENG, P. K.	Greenfield, Mo.
Соцен, Ј. Е	Hannibal, Mo.	MERRILL, J. W.	Carthage, Mo.
CUNNINGHAM, C. G	Carthage, Mo.	MILLER, W. L.	Redwood City, Cal.
DAY R. O	Liberty, Mo.	Napper, H. I.	Springfield, Mo.
DOSTER, A. V.	Los Angeles, Cal.	Neil, C. B.	Republic, Mo.
Ellison, K. A.		Nolen, J.	Hannibal, Mo.
FARRIS, W. L.	Houston, Mo.	Ost, P. W.	St. Louis, Mo.
Fink, F. O.	Union, Mo.	Pasley, J. L.	Mexico, Mo.
FISHER, L. A	Cape Girardeau, Mo.	RATHBONE, S. M.	Eldora, Iowa.
FLEMING, J. W.	Indiana, Pa.	Reid, J. H	McAlester, Okla.
FOSTER, J. N.	Lynn Creek, Mo.	Rood, J. A	Kansas City, Mo.
Gaines, G. D.	Slater, Mo.	Rueh, J.	Rolla, Mo.
GARR, J. E.	Schuyler, Mo.	Sanderson, L. H.	Kirksville, Mo.
Gibson, J. B.	Webb City, Mo.	SARGENT, J. E.	Tulsa, Okla.
GODWIN, W	Pinckneyville, Ill.	Schneeberger, F. C	Webster Groves, Mo.
GORMAN, E. G.	Davenport, Iowa.	Shire, L.	Mexico, Mo.
GRIFFIN, D. W.	Joplin, Mo.	SMAIL, MISS MARY	Rolla, Mo.
Groschan, W. R	Kirkwood, Mo.	Sмітн, Р. A	Collinsville, Okla.
Griswold, E. G.	Peru, Ind.	STACK, WILLIAM	Dublin, Ireland.
Harris, J. N.	Neosho, Mo.	STOGSDILL, J. E.	Vida, Mo.
Hasselman, K. F	Rock Rapids, Iowa.	THOMAS, H. W	Moberly, Mo.
HAUCK, W.	St. Louis, Mo.	Tyrrell, M. L	Langeloth, Pa.
HEITMAN, A. L.	Lincoln, Ill.	Underwood, D.	Georgetown, Ill.
Неім, С. J.	Huntingburg, Ind.	Valerius, C. N	Stuart, Iowa.
Hoey, W. T	Tulsa, Okla.	Ward, R. D.	Webster Groves, Mo.
Hopkins, L. B.	St. Louis, Mo.	WEIRICK, F. A.	Spring Bluff, Mo.
Horrom, O. J.	Rolla, Mo.	WHITESELL, P. E.	Martinsville, Ind.
IRVING, C. C.	Packwood, Iowa.	WILLIAMS, L. O.	Webster Groves, Mo.

Freshman Class 1926

THE Freshman Class of '26 began to drift into Rolla during the last week in August. We arrived in many different ways: Some walking, some riding, some on the rods and some on the cushions. We were a motely crew, fresh from the farm and "rarin" to learn it all.

We were each one met by a reception committee consisting chiefly of sophomores who proceeded to enlighten and initiate us into the hardships and joys of being miners. The hazing was accomplished by means of paddles, pond parties, flypaper races, and divers other forms of punishment, which we took with the best possible grace.

As is the custom at M. S. M., the hazing was brought to an end by the class fight. On Tuesday night we went to the fair grounds, as every freshman class has gone before us. The Phelps County Fair was in full sway, and it afforded us an opportunity to blow our money on the various wheels of chance, and to regale ourselves on pink lemonade and sody-pop. Late in the evening we gathered at the grandstand where some of the juniors and seniors taught us the Mining Engineer, the Miner, and other yells of the school. After learning a class yell, we hit our respective hay piles, so that we would be ready for the great battle next day with lots of pep. The morning dawned wet and gloomy, but we marched to the campus with the light of battle in our eyes, ready in every respect for the bloody fray. We did our best, but were soon overcome and tied up by our gallant foes. After the fight we were painted green and marched in lockstep to the tune of slapsticks to Jackling Field, where we were put through some amazing fine stunts, much to the delight of the spectators, who were many in spite of the drizzling rain. The remainder of the day was spent in rest lab until night, when the sophomores entertained us with a smoker.

During the next week we received a nominal sum, our one cent postage stamps, which were greatly exalted by being called caps. These distinguishing marks we wore until green cap day, when we burned them at a celebration gotten up expressly for that purpose. Incidentally some of the insulation was burned off the electric light wires, and one of our number was jugged by the Rollie police force.

Our social obligations have been rather light. They were limited to the freshman smoker that we gave in December, and the freshman hop in May. We always tried to amuse the spectators at the football and basketball games, between halves. Once in a while a little interest was aroused, but usually we got the much thrown "razzberry" which we probably deserved.

We were represented on the Varsity football squad by three men, and on the basketball team by one man. Several who did not make the team went out regularly to practice. A few were out for boxing, wrestling and track.

We feel by this time that we really belong to the school. We will leave this spring with the firm determination to return next fall to take up our duties as sophomores and students of M. S. M., and we will do our best to uphold and carry on the standards of the school.

Officers

C. L. Kitchen President

P. N. Ashlock Vice-President

M. B. Mills Secretary and Treasurer



Rollamo

Class Roll

Anderson, C. A.	Tulsa, Okla.
Arra, D. L	Upper Montclair, N. J
Ashlock, P. N	St. Louis, Mo.
BIRCHARD, H. C.	East St. Louis, Ill.
BUTTERLY, G. M	Henryetta, Okla.
Butts, R. H.	Lebanon, Mo.
CAMMACK, K	Williamstown, Mo.
Christopher, J.	Warrensburg, Mo.
Crawford, J. D.	Webster Groves, Mo.
Craig, C. D.	Galt, Mo.
DA MOTTE, E. W	Granite City, Ill.
Diers, H. M.	East Orange, N. J.
Du Vall, V	Rolla, Mo.
GAMMETER, ELMER	St. Louis, Mo.
GAMMETER, ERWIN	St. Louis, Mo.
GILBERT, W	Sapulpa, Okla.
GILBREATH, C. L.	Carthage, Mo.
Grady, J. H.	St. Louis, Mo.
HARDIN, M. J.	Stella, Mo.
HARRISON, W.	St. Louis, Mo.
HAVENS, W. P.	Carthage, Mo.
HAYS, W.	Hannibal, Mo.
HERDER, H. A.	Edwardsville, Ill.
Hershkowitz, L.	Tulsa, Okla.
HICKMAN, R. R.	Kansas City, Mo.
Holfelder, J. B.	Framington, Mass.
Holman, J. A.	Marshall, Tex.
KEIM, R. E.	Kansas City, Mo.
Kennedy, E.	St. Louis, Mo.
KITCHEN, C. L.	Rolla, Mo.
Косн, О. L	Treloar, Mo.
KOLLAR, R. E.	Rolla, Mo.
Kuhn, J. R.	Webb City, Mo.

LINDENAU, E. M	Indianapolis, Ind.
McIlwain, M. M	Okaurille, Ill.
McLean, M. E.	East St. Louis, Ill.
Mills, M. B	Joplin, Mo.
Moore, J	Monticello, Ind.
Morgan, B. F.	Falls City, Neb.
MOULDER, W. J.	Morley, Mo.
MURPHY, H. A.	Chesterfield, Ill.
Newcombe, G. D	Shreveport, La.
NIELD, E. P.	Webster Groves, Mo.
Polly, H. G.	Lebanon, Mo.
OSBORNE, F. R.	Canton, Ill.
RICE, B. K.	Miami, Okla.
RICHARDS, E. E.	Webb City, Mo.
RAGLE, H.	Salina, Kan.
Schooler, D. R.	Columbia, Mo.
Schroeder, G. B	Kansas City, Mo.
Shaffer, W. J	Thornton, Iowa.
SHIRLEY, E. G.	Warrensburg, Mo.
Short, W. I	Wilkensburg, Pa.
Seifert, J. W.	Joplin, Mo.
Sievers, E. R.	St. Louis, Mo.
SINNETT, J. B.	Dayton, O.
Sмітн, С. С	St. Louis, Mo.
Sмітн, J. C	Rolla, Mo.
THATCHER, T. H.	Ferguson, Mo.
Тномая, Н. W	Moberly, Mo.
THOMPSON, B	Rolla, Mo.
Tidd, R. E	Webster Groves, Mo.
WHISTLER, W. S	Burlington, Kan.
WHITE, R. M.,	Doniphan, Mo.
WIGHTMAN, R. H.	Braymer, Mo.
Wilber, R.	

Rollamo

Class Roll

W. J. ALTON

G. L. Argus

M. L. ATKINSON

E. E. BAKER

Т. Н. ВЕСК

G. F. BERRY

G. E. BISHOP

M. L. BOTHWELL

B. BRATCHER

F. L. BROOM

R. H. BRUMLEY

W. H. Bush

C. J. BALIN

OTTO BALL

J. D. Behnke

P. L. BLAKE

J. E. Brannen

W. F. Brooks

R. O. Brown

E. S. BODINE

F. A. BULLINGTON

P. H. BARNHART

H. J. BEAGLES

E. T. BRUCE

E. A. CLARK

J. W. FLEMING

D. M. FOLLETTE

D. L. Fox

JOHN GERDTS

GEO. GROH

J. N. HARRIS

A. H. HERIGON

C. H. HOPE

F. A. Howes

M. H. Hurst D. H. HABERMAN

M. J. HARDEN

F. E. HARRISON

I. F. HAZELWOOD

L. B. HOPKINS

FRED HOLLOWAY J. Huckins

A. B. Johnson

J. C. JENIKA

H. P. Jones

J. E. Jesse

M. Johnson

R. A. Johnson

B. W. JAGGAR

H. E. KELSEY

F. P. MATLACK

A. Meglitsch

D. B. MERRICK

W. L. MILLER

J. E. MITCHELL

S. M. MAUER

A. G. MEIER

M. T. MILFORD

H. S. MILSTEAD

A. R. Morris

W. M. NAUGHTON

F. P. NANTISTA

R. P. Nelson

O. W. NOEL

H. I. NAPPER

C. B. NEIL

R. S. NOLEN

V. L. OLSEN

P. W. Ost

M. E. OVEREEN

S. B. O'HARA

J. H. OSBORN

I. K. OWENS

T. M. Post

E. M. PARKER

L. A. Cassil

E. F. CHAPIN

A. L. Cook

M. P. CORRIDON

A. E. CHATTILLON

JAMES CLEARMAN

OLIVER C. COPE

D. L. CRIPPEN

W. A. COFFMAN

R. J. CARTER

W. S. CLARK

HOMER DENNIS W. C. DAVIS

J. S. DAVID

DEWEY ELLIFF

WM, EPPERSON

LEE E. ELLIOTT

ELMER ELSHIRE F. O. FINK

A. Federhofer E. L. Fipps

L. A. FREEMAN

GEO. FARRELL

D. KIMBLE E. C. KRUSE

D. KENNEDY

J. F. KILPATRICK

F. R. KORTE

R. J. KUNDER

A. E. LANG J. M. LEE

L. A. LOGAN

J. R. LUMLEY

C. M. LANCASTER

W. O. LARSON

Class Roll (Continued)

C. H. LINDSLY HOMER LUCAS B. F. Lyons E. J. LYON C. LINDSAY WM. LARSON C. C. Launius M. McDonnell J. M. McDonnell F. C. McGrath RAY McBRIAN F. R. McKeown R. R. McGee J. A. PHILLIPS F. A. POOLE J. L. PASLEY W. D. Phillips R. E. RICHARDSON JOHN RIDDLE D. R. ROSELL L. H. SANDERSON E. J. Schremp W. J. SHAFFER E. A. SHIRLEY E. A. SMITH EARL SNELL C. E. STOVER J. L. SANDERS F. C. Schneeberger J. T. SCHULTZ FRED SEIVER W. J. SHUPE ETSEL SNIDER G. E. SLEPPY E. L. SHIREMAN C. L. SCHOECK

G. T. TRAVIS W. E. TEN EYCK J. N. THOMAS S. N. THOMPSON C. D. TOWNSEND H. L. TURNER J. E. TAYLOR C. W. THATCHER J. C. THOMPSON CHARLES TOTH C. A. TURNER J. E. VAUGHN H. F. VALENTINE J. N. VANCLEAVE D. F. VINCENT J. B. WILLIAMS D. F. Walsh R. P. WHITE R. H. WAKELAND H. O. WEBER H. V. WHITE E. W. WILBURN F. L. WILLIAMS W. T. WILLIAMS F. E. WEAKLEY V. L. WHITWORTH H. L. WILKINSON G. F. WILLIAMS NICHOLAS WOLFE W. WIEMKEN E. J. WADE PAUL WATTKE S. I. Zook M. F. Zogg

H. THOMAS

Officers

F. C. Schneeberger	Prestaent
D. KIMBLE	Vice-President
B. Bratcher	Secretary
F. O. FINK	Treasurer

Flighway Class

HIGHWAY engineering offers one of the largest and best fields for the employment of good men in the country at this and all future time.

The Highway Engineering Course, as outlined and taught by the Missouri School of Mines and under the auspices of the United States Veterans' Bureau, was instituted to help the United States at large to take care of the growing programs of good roads building, also to assist in every way possible to rehabilitate the returned veterans.

When the United States Veterans' Bureau sends a man to this institution for instruction, he finds the course so constructed that, provided his previous education is only of an elementary nature, he is able to carry on and to make good in every way, while he does not receive a C. E. degree he receives a lot of good practical knowledge and is fitted to go out and hold as good a position as most of the C. E. men are holding as Highway Engineers.

It matters not how much theory one has, he must also have the practical knowledge to make a success, and that is what the men get by close application to their studies and field work, as the instructors are all men of much experience and have built many miles of good roads.

The auto has perhaps been the greatest factor in creating a demand for the best of roads, and it will take a great many years to complete even the main highways, not to speak of the by-roads; so it will go on and on until the country is filled with highways that will be a credit to the men who are now receiving instruction in this kind of work, for they follow so close to the pioneer engineers in this engineering work that they might well be called pioneers.

The humblest student at this time may, in future years, prove to be one of the greatest highway engineers of all time, for today some of the State Engineers are men who have gone from the ranks and never had the opportunity to attain the degree of C. E.; so we again wish to state that the man who applies himself, after he has had his institutional instructions and gone out on the job, can show the world that he is making good and that there is no height that he cannot attain by diligent work.

Not only the Missouri School of Mines, but the United States Veterans' Bureau will look with pride on their handiwork and say 'tis a job well done, and any man may well be proud of the fact that he has had this opportunity to gain an education and get so much in so short a time and under the conditions that are given him, not only will be have the education but he will be rehabilitated into profitable employment.



Rollamo

Oil Class

THE petroleum industry at present has a greater opening for technically trained men than any other industry. For this reason it is comparatively young, and has prior to the last few years been conducted in a hit or miss extravagant manner. The fundamental principles are the same today as they were in the early days of the business. There has been great strides made in the past few years to put the industry on an economic and technical basis, and has eliminated a great deal of the waste of earlier years, and still there are a great many openings for improvement along all lines, especially in the development and operation in all phases of the industry.

A recent issue of the Oil and Gas Journal carried an article giving the names of universities and colleges in states that have in their curricula a Petroleum Engineering Option course to train men for the petroleum industry, and the Petroleum Option Course offered by the Missouri School of Mines is one of the best, and should be considered by any person who expects to make petroleum engineering their vocation.

The Oil Field Engineer course that the U. S. V. B. is giving their trainees at the Missouri School of Mines, I believe, is the only course of its kind in America. It was planned with the idea in view of training men that had had oil field experience to be able to hold better positions after taking the course, and to rehabilitate them to their earning capacity of the pre-war basis. They are not trying to make short-cut geologists, oil chemists or civil engineers, but to fit these men so that by using what they acquire here in M. S. M. and with their experience they become very valuable employes of any oil company in a short time.

They are having a great deal of co-operation from the larger oil companies in taking men for placement training for the three months each year that they are out of school, to give the trainees the fundamentals as they encounter them in the actual work. To enable them to make the application of what they have and will acquire here in school, they are placing men that have had experience in the drilling department of the business into the production end during placement in their works, putting them in some department that they have not had experience to broaden them, for there is no industry where a man is as versatile as the petroleum industry. These men are going to the different companies and are assigned to competent men in the employ of the companies to observe and help the different phases of the different departments, thereby gaining knowledge from the actual work they will encounter after leaving school. When they leave school it is not with the view of going to a company as an officer, but as an assistant to the men who have charge of the different work that the trainee is best suited for, and should by strict application to duty and loyalty to their organization become valued employees of any company, and there is no other industry where loyalty and application to duty is as highly rewarded as the "oil business."



OIL CLASS

Topographic Class

In May, 1920, there was inaugerated in some of the vocational courses a few topographic subjects, by C. E. Bardsley, who has had several years experience as a railroad engineer and held an appointment as a Junior Topographer of the U. S. G. S.

On July 1, 1920, Chief Buehler, State Geologist of Missouri, Major W. H. Herron, Geographer in charge of the U. S. G. S. work in the central division, C. E. Partch, a district vocational official, and C. E. Bradsley, counsellor of vocational men at the Missouri School of Mines, and other officials of the Federal Board for vocational training (now U. S. Veterans' Bureau), President Albert Ross Hill of the University of Missouri, Dr. A. L. McRae, director of the Missouri School of Mines and Metallurgy, met with the full Board of Curators in Rolla.

As a result of this meeting all the above parties entered into an agreement to support the course in topography, with the understanding that men trained in this line would be given positions with the U. S. Geological Survey.

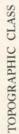
Soon after the course was started it grew to such an extent that more instructors were needed, and hence it became necessary to ask the U. S. G. S. if it would be possible to send one of their topographic engineers to assist in the work. On October 15, 1920, Major Chas. E. Cooke, one of the survey's most able men, who has had upward of thirty years' experience with the topographic branch, and who formerly gave a similar course at the University of Chicago, was assigned to this work.

Upon the Major's arrival, the Department of Vocational Education was given a place among the departments of the university, with the Major as the head of the department.

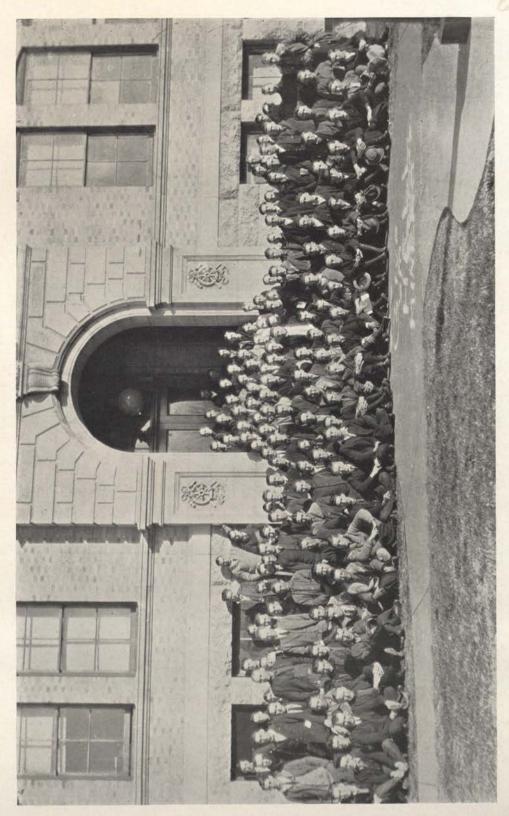
Under this efficient direction the enrollment grew in such numbers that it became necessary to ask the U. S. G. S. for additional instructors. On April 1, 1921, Mr. T. T. Ranney, Junior Topographer U. S. G. S., who had given topographic instruction while in an engineering corps of the army, and Mr. W. B. Brewer, Junior Topographer U. S. G. S., were added to the instructional staff of the department. On July 1, 1921, Messrs. Gordon Cooke, and E. E. Decker, Junior Topographer U. S. G. S., were added as instructors.

While pursuing this course of training we were honored by many pleasant visits by Colonel C. H. Birdseye, Chief Topographic Engineer, by Major W. H. Herron, and by other officials of the U. S. G. S.

It is now 1923, and we are about to be awarded the positions for which we have been trained. We look back with pleasure over our course which the government fostered in our behalf, and, seeing ourselves as we are today, realize that it has offered us a golden opportunity.







VOCATIONAL CLASS

Headquarters Reserve Officers Training Corps

1023

Roster of Battalion

MAJOR H. E. ZOLLER

Company "A"

CAPTAIN B. F. HOOVER LIEUTENANT W. C. LAY LIEUTENANT B. R. MENNIE FIRST SERGEANT A. E. BUCK PLATOON SGT. J. O. HUNT PLATOON SGT. L. R. SPRINGER CORPORAL H. R. BERRY CORPORAL A. W. CROCKER CORPORAL K. A. ELLISON CORPORAL K. F. HASSELMAN CORPORAL I. G. KNOEBEL PRIVATE C. A. ANDERSON PRIVATE O. R. BROWN PRIVATE B. L. BROWNING PRIVATE K. COMMACK PRIVATE J. E. COUCH
PRIVATE W. E. COX
PRIVATE G. C. CUNNINGHAM PRIVATE W. L. FARRIS PRIVATE ELMER GAMMETER PRIVATE ERWIN GAMMETER Private J. E. Garr Private E. J. Gorman PRIVATE E. H. GRISWOLD PRIVATE W. A. HARRISON PRIVATE J. A. HOLMAN PRIVATE R. E. KEIM PRIVATE F. C. KEITH PRIVATE C. L. KITCHEN PRIVATE O. L. KOCH PRIVATE G. B. LETTS PRIVATE F. C. MARTIN PRIVATE M. N. McILWAIN PRIVATE J. W. MERRILL PRIVATE D. F. MORGAN PRIVATE E. P. NIELD PRIVATE E. B. O'BRIEN PRIVATE H. G. POLLY PRIVATE H. T. RAGLE PRIVATE F. L. REDER PRIVATE C. RUEH PRIVATE W. I. SHORT PRIVATE C. C. SMITH PRIVATE J. H. THATCHER PRIVATE W. F. WHISTLER PRIVATE R. M. WHITE PRIVATE P. E. WHITSELL PRIVATE C. C. WHITTELSEY PRIVATE R. H. WHITEMAN PRIVATE L. O. WILLIAMS PRIVATE O. M. WILSON

ADJUTANT D. G. GIBSON, JR.

Company "B"

CAPTAIN J. M. REEVES LIEUT. J. M. WANENMACHER LIEUTENANT V. H. WEBSTER FIRST SERGEANT D. L. MOODIE PLATOON SGT. H. R. DRUOUT PLATOON SGT. A. W. WALKER CORPORAL J. W. FOSTER CORPORAL G. S. GAINES CORPORAL A. L. HEITMAN CORPORAL O. J. HORROM CORPORAL M. A. LEDFORD PRIVATE R. M. ABBOTT PRIVATE T. M. ASHLOCK PRIVATE R. A. BUTTS PRIVATE W. A. BURG PRIVATE S. E. CRAIG PRIVATE J. A. CRAWFORD PRIVATE E. W. DAMOTTE PRIVATE L. A. FISHER PRIVATE W. GILBERT PRIVATE C. L. GILBREATH PRIVATE W. R. GROSCHAN PRIVATE W. H. HAYS PRIVATE L. HERSHKOWITZ PRIVATE H. A. HERDER PRIVATE C. C. IRVING PRIVATE J. R. KUHN PRIVATE M. LEVY PRIVATE C. L. MARTIN PRIVATE M. E. MCLEAN PRIVATE M. B. MILLS PRIVATE J. MOORE PRIVATE F. E. RICHARDS PRIVATE J. A. ROOD PRIVATE G. B. SCHROEDER PRIVATE E. W. SEIFFERT PRIVATE J. C. SMITH PRIVATE J. E. STOGSDILL PRIVATE H. W. THOMAS PRIVATE B. THOMPSON PRIVATE D. UNDERWOOD PRIVATE C. M. VALERIUS PRIVATE W. H. WARRELL PRIVATE L. W. WILHELM PRIVATE G. H. WEIRICH

Advance Course Platoon

CAPTAIN E. R. TRAGITT

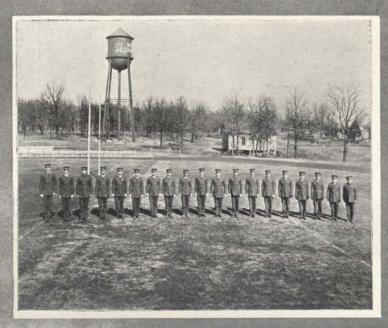
SERGEANT J. P. CAMPBELL
SERGEANT P. J. HEGWER
SERGEANT G. C. GABLER
SERGEANT W. E. H. KNIGHT
SERGEANT H. E. McBRIDE
SERGEANT R. T. MUENCH
SERGEANT A. W. NAYLOR

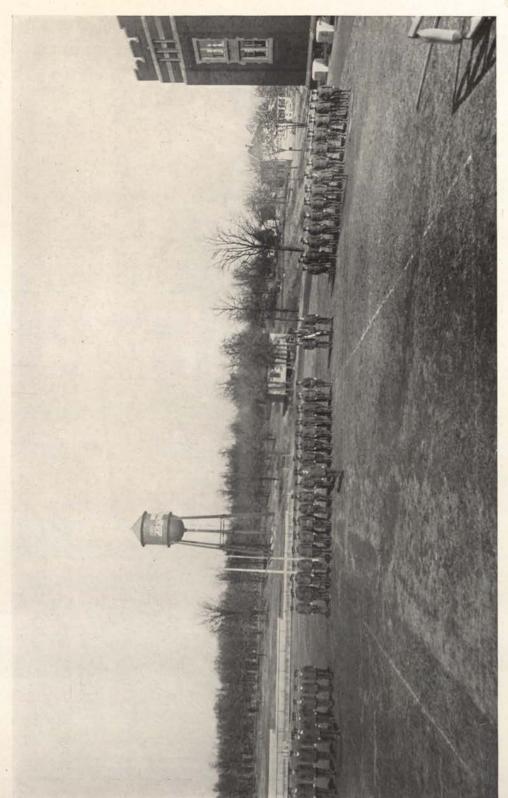
SERGEANT G. F. NAWN
SERGEANT R. F. ORR
SERGEANT A. B. PARKHURST
SERGEANT B. K. RICE
SERGEANT K. A. SCHMIDT
SERGEANT H. O. SCHRAMM
SERGEANT C. F. SCHAEFER

SERGEANT J. D. THOMAS



R.O.T.C.

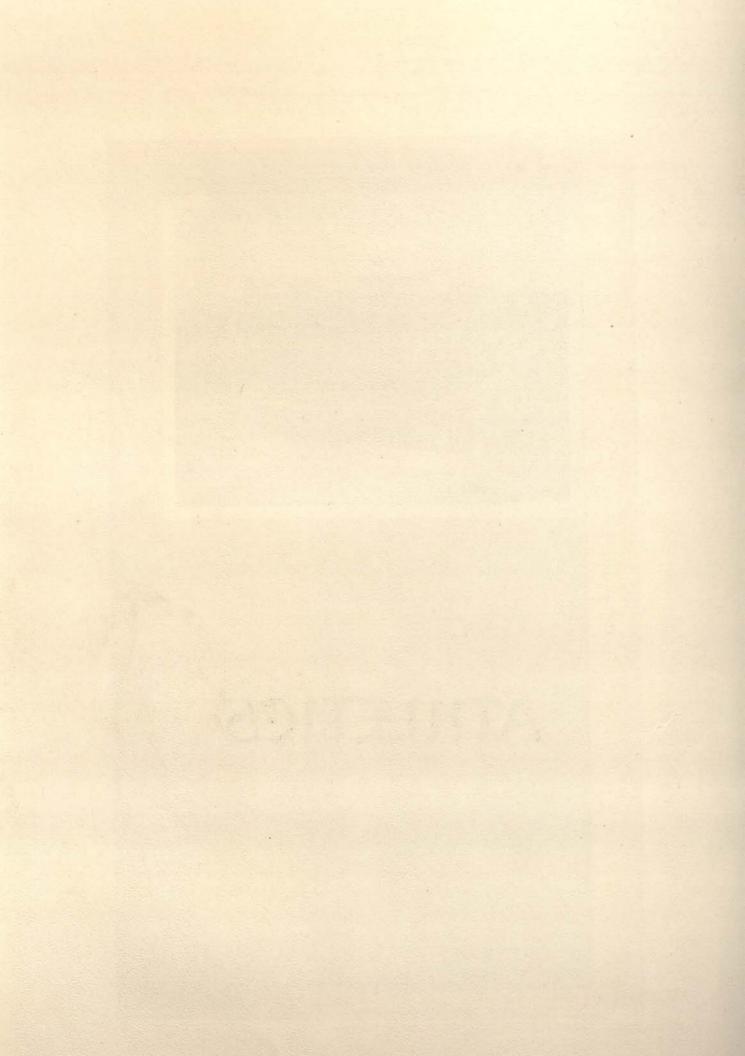




THE BATTALION



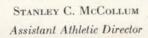
ATHLETICS





Frank Edward Dennie

Athletic Director







Football

Samuel Zook, 3 Kurt Commack, 1 George Gabler, 1 Henry Zoller, 3 Albert Buck, 3 Arlis Parkhurst, 3 Eugene Sanders, 1 Mike Ledford, 2 Benhamin Hoover, 1 Hollis McBride, 2 Jack Nolen, 2 Karl Hasselman, 2

JAMES SARGENT, 1

Basketball

CLAUDE KEMPER, 3 HAROLD MURPHY, 1 CHARLES KALEY, 1
JACK CAMPBELL, 1

HOLLIS McBride, 1

Grack

Benjamin Hoover, 2 Henri Chomeau, 3 Horace Scruby, 2 Edward Pesout, 2 Albert Runge, 2 Cecil Walls, 2 CARLETON SMITH, 2
HARRY AINSWORTH, 1
KARL HASSELMAN, 1
ALBERT BUCK, 1
CHARLES MARTIN, 1
IVAN HAZELWOOD, 1

GEORGE GABLER, 1

Wrestling

ARTHUR WALKER, 1 HERBERT SCHRAMM, 1 GEORGE GARR, 1

GEORGE BISHOP, 1 CHARLES MARTIN, 1 KURT COMMACK, 1

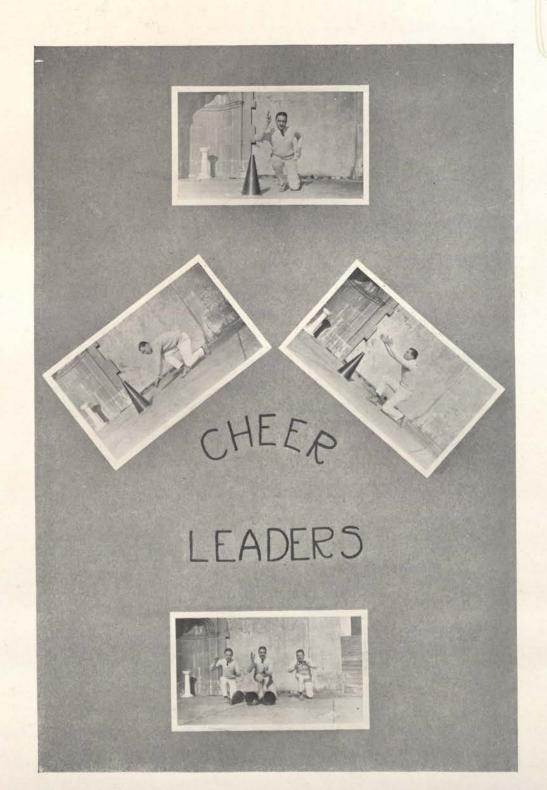
RAY RICHARDSON, 1

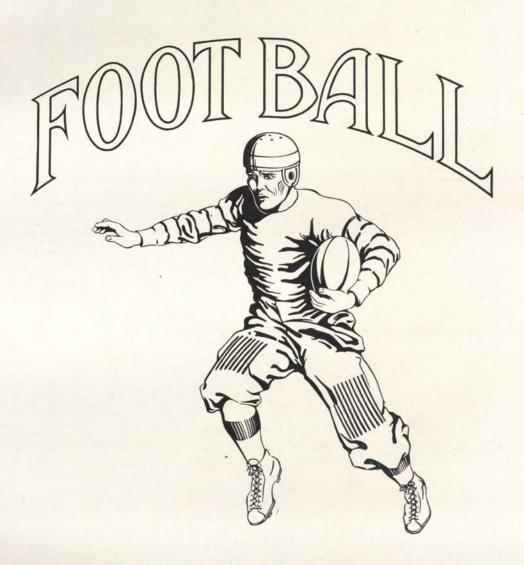
Boxing

No letters awarded in 1923.



LETTERMEN







Dennie (Athletic Director), Coach McCollum, Cox, Havens, Flesh, Frame (Business Manager), Moodie, Kentnor, Evans, Hasselman, Crutcher, Powers, Anderson, Nolen, Sanders, Arra, Commack, Zoller (Captain), Gabler, Buck, Zook, Parkhurst, McBride, Springer, Ledford, Sargent, Groschan, Watkins, Hoover.



CAPTAIN HENRY E. ZOLLER

Football

The first call early in September for candidates for the Varsity football team bought out fifty-one men, among whom were eleven lettermen from last year's squad. In addition there were many

one men, among whom were eleven lettermen from last year's squad. In addition there were many substitutes and a number of promising freshmen. These men formed the squad from which Coach McCollum was to build a team to represent the School of Mines on the gridiron.

At the beginning of the year S. C. McCollum was announced as successor of Mr. McCune as football coach of the Silver and Gold. McCollum played several years on the Varsity football and basketball teams of Pennsylvania State College. With such experience Coach McCollum seemed well qualified to take charge of athletics at M. S. M.

F. E. Dennis, athletic director, needs no introduction. We all know "Spike" and feel confident that he is ever on the alert for the betterment of sports at the school. Although not being officially connected with coaching of the team, he gave considerable time and effort to help "Mac" in develop-

ing a winning combination.

Coach McCollum set the boys to work immediately and lost no time in preparing for the first game of the year with Washington University. The coach brought several new ideas along with him and put them into early action. Every man trying for a place on the team realized that it meant real work to play football for McCollum. The squad, after acquiring "Mac's" ideas, showed such strength that great things were expected of them by the student body. In fact, the first game of the season aroused so much enthusiasm that the student body as a whole chartered a special train to

MINERS 6—WASHINGTON U. 14.

St. Louis, Mo., October 7, 1922.

A slow drizzling rain with a muddy field formed the unusual setting for the first game of the season with the Pikers. These conditions considerably handicapped the offensive action of both

teams, which resulted in line plays being used for the most part throughout the game.

The Miners, by a series of line plunges, featured by a delayed cross-buck, which had the Red and Green warriors guessing, took the ball from their own twenty yard line over the enemy's goal line. Parkhurst, in his attempt to place kick, failed to add the extra point. This, however, did not dampen the Miner spirit, even though the score stood 7-6, Washington having previously in the same quarter scored a touchdown on a fumble and made the additional point.

Things looked promising for the first Miner victory in several years. However, during the third quarter Thumser, of Washington, after receiving a punt from Sargent, ran around the Miners right end for the last score of the game. Washington kicked goal.

The game, although not resulting in a Miner victory, showed that we had a real team which could

be expected to do great things in the remaining games.

MINERS 10-WESTMINSTER 0.

Jackling Field, October 13, 1922.

The first conference game of the season resulted in a Miner victory. The team was not up to the form of the previous game, and fumbled at critical moments throughout the contest. However, Westminster showed little except a method of calling signals, which delayed the game considerably. Our team lost a large amount of the old fight after waiting for the Blue Jays when they were in possession of the ball to determine a plan of action before each play.

Now and then the team showed real form, especially in warding off the Birds lone bid for a touchdown. Parkhurst's field goal and Ledford's touchdown with the subsequent goal gave the

10 points which meant victory

MINERS 3-MISSOURI WESLEYAN 14.

Cameron, Mo., October 20, 1922.

This game furnished a severe jolt for old man "dope". The Miners after being top-heavy favorites came out at the short end of the score. The team's good work was again marred by fumbles and lack of fight when most needed. Wesleyan, having nothing to lose and everything to gain, fought hard all the way for the game.

Parkhurst scored the lone 3 points in the second quarter with a 32 yard place kick. Clark of

Wesleyan went over in the third and fourth quarters for his team's points.

Miners 0—Arkansas Agricultural College 6.

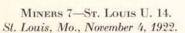
Jackling Field, October 27, 1922.

The Miners and Aggies put on one of the best battles ever staged at Jackling Field. The teams played excellent football, and the closeness of the score kept the spectators on edge throughout the game. Open field play featured the game, with Tucker of the Russelville aggregation doing some of the best open field running seen here in years. He scored the only touchdown of the game by running back a punt 65 yards with the aid of some excellent interference.

The Miners, after a relapse during the Wesleyan game, regained their form and nothing but the fact that fate willed it otherwise kept them from winning. Zoller played his usual excellent game, but in this contest was supported by the brilliant work of his team-mates. The backfield

Rollanie

proved to be a real offensive machine in this game.



The team journeyed to St. Louis for a game with the much heralded Blue and White machine, only to lose it through admittedly poor officiating, when the Billikens were at fault. The Miners outplayed and outfought the Grand Avenue boys at every angle of the game. Our team put one

over the line, but was unable to overcome the handicap imposed upon it.

Ledford carried the ball over for the Silver and Gold. Parkhurst kicked goal. Sargent got off

long punts time after time, while Zoller played his unusual sterling game at center.

MINERS 0—DRURY 12. Jackling Field, November 11, 1922.

Drury having lost every game so far in the season sprung a surprise and took the white jerseyed eleven into camp for its first victory. Strange, but the St. Louis U. game seemed to have sapped the team's old fight, and a listless game from a football standpoint resulted. The line was especially

weak on the defense, with the backfield doing yeoman duty.

Zook, of last year's team, played his first game of the season at end and proved a good ground gainer, after hooking the old pill out of the air. The Silver and Gold's attempt for a touchdown proved futile when the ball was fumbled on the goal line, and again when the runner stepped out of bounds on a play, which at the time resulted in a score. Long end runs featured the Panther's attack, and paved a way for both their touchdowns.

MINERS 6—JAMES MILLIKIN 6.

Jackling Field, November 18, 1922.

Millikin arrived at noon, wanted to play immediately and leave at 4:20 p. m. However, much to their surprise the game was easier won by talking than on the playing field. One may be down but not out, and the Miner eleven went on the field to prove it. Fighting and battling their way on a muddy and consequently slippery field, the old school let the lads from Decatur down with a tie score. Much could be said about the game, but one of the outstanding features was the splendid team play of our gridders, who fought unitedly to come out at the big end of the score.

Millikin scored their first touchdown when a Miner fumble materially aided them in crossing the line. The Blue backfield made a desperate attempt near the close of the game to forward pass themselves to a score, but their tries were ably broken up by our secondary defense. Zook, after receiving a pass on the Millikin 40-yard line, raced the remaining distance for the score that tied

up the old game.

Unfortunately, Babe Parkhurst's kick was blocked in the attempt for point after touchdown, which resulted in the Decatur aggregation getting an even break.

Miners 6—U. Tennessee Doctors 54.

Memphis, Tenn., November 25, 1922.

For the last game of the season the School of Mines team journeyed to Tennessee to battle the much heralded Doctors of Memphis. Now, the Medics' team is composed of players who have had previous gridiron experience and can ably prove it by their season's record. So, with this knowledge, we can readily understand the cause of such overwhelming defeat.

The first half ended in a 7-6 score in favor of the Doctors. The Miners played some football during the first half and were rewarded with a touchdown for their efforts. Our eleven was one of the few teams to score on the Southern machine. Hoover was the lucky man, as he carried the

pigskin over the enemy's line for our lone touchdown.

Review

The football season past resulted in only one game being chalked up in the winning column, which to some may mean complete failure. However, success can hardly be measured completely in the number of games won, tied or lost. In looking back over the past season, we can see difficulties which had to be surmounted before victory could be won.

In the first place, injuries throughout the year kept Coach McCollum from being able, after the Washington game, to put the team's full power into any one game. Secondly, several bad breaks during the course of the season lowered the team's morale at crucial moments. Thirdly, some highly tooted teams were played, and defeat at their hands was no disgrace. Finally, every team

encounters a bad year, and it seems that our eleven had theirs this year.

Omitting the game with the Tennessee Medics, the scores show the Miners eleven, though beaten, was not given a very decided dubbing in any one game. In four games the opponents held only a touchdown margin, while in two others it was raised one before the final whistle blew. These,

in addition to the tie game, show no great superiority for the enemy.

However, offering no cause for defeat other than those that really existed, the curtain closes on the season of 1922, and we look forward to '23 as a year of achievement for the Varsity. Men who have fought valiently in face of defeat should form the nucleus of an eleven which will do great things in time of victory. Coach McCollum, after a year's experience at the school, should be better able to guide its future destinies. Let's wipe the slate clean and start next season off with a good team supported by the student body of the School of Mines.



Samuel Zook, End

Height 6 feet; weight 178 pounds.

Sam, though out on account of injuries during most of the season, returned to the game in time to score the touchdown which gave the Miners a tie with Millikin. The team will lose a real fighter as old "S.I." graduates this year.



KURT COMMACK, Tackle

Height 5 feet, 10 inches; weight 200 pounds.

A big chap and every inch a man. Although just a freshman, Commack made the Varsity and played a game which encourages us to predict a bright future for this pigskin chaser.



HENRY ZOLLER, Center, Captain.

Height 5 feet, 8 inches; weight 170 pounds.

"Hank" was the outstanding player on the team and justly deserved the position of center and captain of the All-Missouri Intercollegiate mythical eleven. "Tin Ears" departure through graduation will leave a big gap in the line to be filled next year.



GEORGE GABLER, Guard

Height 5 feet, 10 inches; weight 185 pounds.

George, after spending two years grinding away, betook himself to the football field, where he met with equal success. Kept the enemy from piercing his side of the line.



Arlis Parkhurst, Tackle.

Height 6 feet, 2 inches; weight 200 pounds.

Built along the lines of a battleship, "Babe" filled a big space in the Miner line. Used his educated toe to a decided advantage at every opportunity.



EUGENE SANDERS, End.

Height 6 feet; weight 178 pounds.

"Red" is the old pepper box of the team. Always has something to say to keep the old fighting spirit alive.



MIKE LEDFORD, Quarterback

Height 5 feet, 8 inches; weight 155 pounds.

Mike is a sure tackler and his ability to drop 'em has stopped many an enemy's bid for a touchdown.



Albert Buck, Guard, Captain-Elect.

Height 6 feet; weight 185 pounds.

A real fighter and an ideal man to lead next year's team. Under every punt and hits 'em hard.



BENJAMIN HOOVER, Halfback

Height 5 feet, 10 inches; weight 168 pounds.

"Herb's" speed and weight aided considerably in bending back the opposing line. It took a real tackle to stop "B.F." when under full speed.



Hollis McBride, Halfback.

Height 5 feet, 8 inches; weight 165 pounds.

"Buddy" can always be depended upon to hit that line hard enough to get the last yard that means another first down.



JACK NOLEN, Halfback

Height 5 feet, 7 inches; weight 160 pounds.

Jack with an open field ahead is always sure to cross 3 or 4 lines before being brought down. An early season injury kept Jack on the side lines during the latter part of the year.



KARL HASSELMAN, Fullback

Height 5 feet, 10 inches; weight 180 pounds,

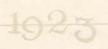
Big and husky, "Swede" hits that line like a battering ram. Backs up the line on the defensive in great style.

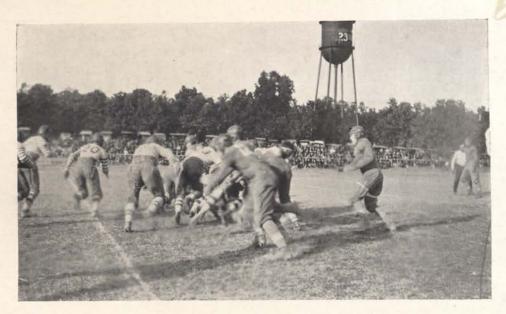


JAMES SARGENT, Fullback

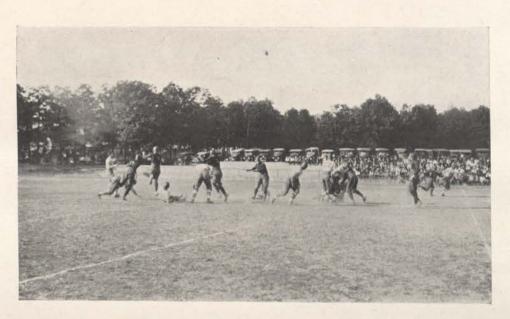
Height 5 feet, 8 inches; weight 170 pounds.

Puts his heart and soul into the game and plays with a vim and dash that every one admires. A real punter who makes every kick count.





WESTMINISTER



ARKANSAS AGGIES



DRURY



JAMES MILLIKIN

Calender 1922

Rollamo

Aug. 28. School starts. Frosh kind o' hi^t for the big timber.

Aug. 29. Sophs win class fight. 51 men report for football.

Sept. 6. Spark Plug favorite at the County Fair. Yes, suh!

Sept. 9. Golf tournament begins.

Sept. 12. What is a Grade Point, Mr. Armby)—if I know Mr. Dean.

Sept. 16. M. S. M. Booster Club organized

Sept. 23. Two Freshmen throw a free exhibition of modern aquatic sports in traditional FRISCO pond.

Oct. 7. Special train to St. Louis. Washington-14, Miners-6.

Oct. 13. Westminster-0, Miners-10.

Oct. 14. Athletic Association gives dance.

Oct. 17. Juniors start drive for St. Pats fund by raffling Ford touring car.

Oct. 20. Missouri Wesleyan-14, Miners-3

Oct. 25. Spoof Walker donates a transit to M. S. M.

Oct. 27. Sophs defeat Frosh 19-0. Hallowe'en Dance. Arkansas Aggies-6, Miners-0.

Nov. 4. St. Louis U.-14, Miners-7. Annual robbery.

Nov. 11. Vocate Smoker a big success. Drury-12, Miners-0.

Nov. 14. Juniors throw a Novelty Dance.

Nov. 18. James Milliken-6, Miners-6.

Nov. 20. Student Senate organized.

Nov. 25. College of Tennessee Doctors-54, Miners-6.

Nov. 28. Freshmen discard their green caps. Zoller, captain and center of All State Conference.

Dec. 8. Football stripes and letters awarded. Inter-Club Fraternity basketball season opens.

Dec. 14. Football Banquet. Buck elected captain.

Dec. 15. M. S. M. Players present "Fair and Warmer."

Dec. 16. Freshman Smoker. ROTTEN!

Dec. 18. Lambda Chi's win basketbal championship.

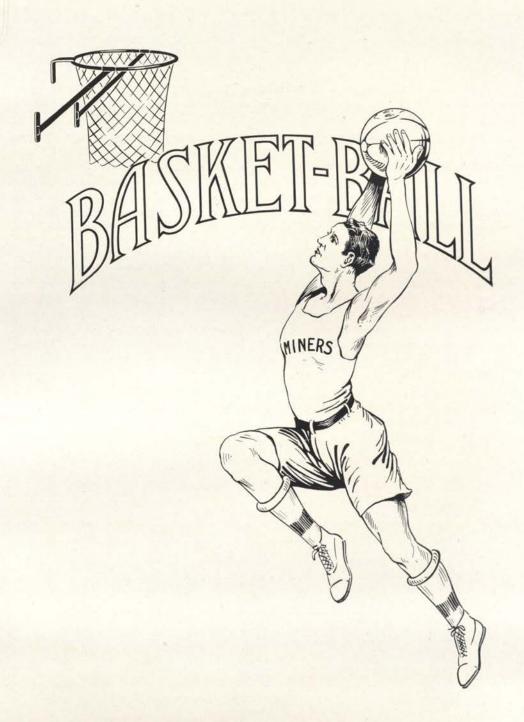
Dec. 18 to 23. Marriage week:

Alma Mikesell—A. B. Jewell

Ada Sanders—James Gregg

E.Eddleman—Walter E. Case

Dec. 22. Christmas Holidays begin.



Basket-Ball

The basketball season opened with only two lettermen in the ranks—Captain McClelland and Kemper—but with five other men from last year's squad and a number of new men the prospects were fair for a good team.

The first game of the season was played on January 10th, against Culver-Stockton. The game was hotly contested; Culver-Stockton, being in good condition, set a fast pace, but were successfully stopped by the Miners, the final score being 44-38 in the Miners' favor.

The next game was with Drury, on January 16th. This was another close game, the Miners keeping in the lead until the last few minutes of play, when Drury got a "run" and slipped one point ahead, winning the game 22-21.

The first road trip of the season was started January 22d. The first two games of the trip were with the Cape Girardeau Teachers. These two games were split between the two teams, Cape winning the first 21-20, while the Miners annexed the second 26-23. The second game was won in spite of the fact that both McClelland and Kemper were forced out on personal fouls. The third game of the trip was played against the strong Memphis Y. M. C. A. team. The game was fast and furious from start to finish, neither side being sure of the game till the final whistle blew. The score was then announced to be 35-31 in favor of Memphis. After this game a quick dash was made to St. Louis, where we dropped the last game of the trip to Concordia on January 26th. This game found the Miners in poor condition and suffering from the long trip, which accounts for the lopsided score of 41-18.

On February 5th the second trip was started, this time just a two game trip to Springfield, where both Drury and Teachers were encountered. The Miners took revenge on Drury, on February 5th, to the tune of 28-16. The following night our fortune was reversed and we dropped a hard fought battle to the Teachers 23-18.

February 9th found the Miners on their home floor battling Illinois College, of Jacksonville, Illinois. The Miners completely outclassed their opponents, winning the game 35-25. Murphy made his initial appearance in this game.

Basket-Ball Team



CLAUDE KEMPER Center Acting Captain



Jack Campbell Forward



Hollis McBride Guard Captain-Elect

On February 13th the Miners lost their second game to the Springfield Teachers. The game was poorly played in the first half, but developed into the fastest game of the season in the second. Springfield ran up a large score in the first half, which the Miners were unable to overbalance in the second, although they outscored their opponents 13-7. After a whirlwind finish by the Miners the score was still on the side of Springfield 23-19.

The last road trip was started on February 18th, the first two games being with Warrensburg, on the 19th and 20th. Here the Miners made a flying start by winning the first game 28-23. In the second game Warrensburg came back determined to get revenged, which they did by the score of 36-11. The next night the Miners mixed with Central College, at Fayette. This proved to be the most exciting game of the season. When the final gun was fired it was found that there was a difference in score books. One book gave the game to the Miners, while the other was the reverse. An extra five minutes was played in which the Miners decided the game in their favor, 34-33.

February 22d found the Miners at Kirksville, where they lost a hard fought battle 26-23. The game was marked by rough playing on account of the smallness of the floor. The last game of the trip was lost to Central Wesleyan 35-30. The Miners were in the lead until the last few minutes of play, when the Wesleyans succeeded in gaining a few points which gave them the game.

On February 26th, Cape Girardeau invaded our camp and left with the game to their credit. The game was slow throughout; the Miners especially showing a lack of "pep". The final whistle found the score 25-19.

The Miners ended the season very appropriately February 28th, by avenging themselves on Kirksville. The game was fast and well played. The Miners were slow in getting their scoring machine working, but finally forged ahead and won with a score of 31-26.

Basket-Ball Team



Charles Kaley Guard



HAROLD MURPHY Forward



McBride, Kemper (Acting Captain), Campbell, McCullom (Coach), Kaley, Murphy.

Basket-Ball

Acting Captain C. L. Kemper
Coach S. M. McCullom

Team

Forwards

Campbell Murphy

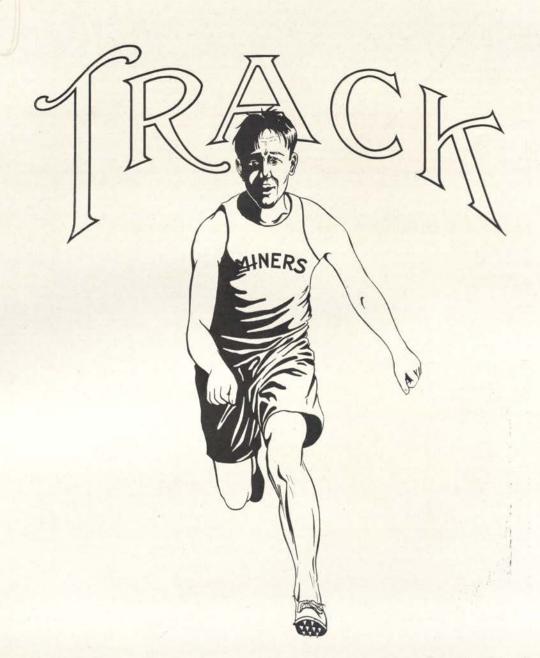
Center

KEMPER

Guards

KALEY McBride

1923



Grack

Although returning no high scores in three meets entered last spring, the Miner team made a really creditable showing. All events entered were strongly contested and as many first places taken as by the rival teams. But, as has often occurred in the past with small Miner squads, not enough second and third places were taken to supplement the first places and equal the opponents'

enough second and third places were taken to supplement the first places and equal the opponents score. This is a condition especially apparent in dual meets, where a team placing one man only in each event must take nearly every first place to win the meet.

Such, practically, was the condition of affairs in the triangular meet with Springfield and Drury on Jackling Field. It proved to be an interesting dual meet between the Miners and Teachers, in which Drury "also ran." Winning half of the track and field events and both relay races, the Silver and Gold was defeated by a small margin by the larger and better balanced Springfield squad. In this meet Al Buck broke the M.S. M. broad important in carettering first places.

In this meet Al Buck broke the M. S. M. broad jump record in capturing first place.

To some extent this factor entered into the loss of the School of Mines-Washington meet.

Here again the Miners contended strongly against a better team.

After the close of the school year, Spike Dennie took a mile relay team and two men for individual events to the M. I. A. A. meet, at Warrenton, Missouri. This small remnant of the team scored nine points and placed in three events. Competition was very strong among the many teams entered. The meet was run off on an unstratified glacial till; loose cinders and clinkers dumped shortly before the meet upon a vaguely defined, almost level, oval track.

Washington 85—Miners 51 St. Louis, Mo., April 15, 1922.

St. Louis, Mo., April 15, 1922.						
EVENT	FIRST	SECOND	THIRD	TIME OR DISTANCE		
100 yd. Dash	ANDEWERT (W)	SMITH (M)	GOLDSCHMIDT (W)	:10		
220 yd. Dash	ANDEWERT (W)	SMITH (M)	GOLDSCHMIDT (W)	:22-1/5		
440 yd. Dash	HOAGLAND (W)	RAWLEY (W)	Runge (M)	:52-2/5		
880 yd. Run	EVERLY (W)	CAPPS (W)	Runge (M)	2:11-4/5		
1 mile Run	CAPPS (W)	CHOMEAU (M)	Schulz (W)	4:46-3/5		
2 mile Run	CHOMEAU (M)	Ralls (W)	HUYE (W)	10:57-3/5		
120 yd. High Hurd		SCRUBY (M)	HOOVER (M)	:16-4/5		
220 yd. Low Hurd	HOOVER (M)	THUMSER (W)	SMITH (M)	:27-1/5		
Half mile Relay	WASHINGTON	THOMOTH (III)	Smilli ()	1:37-2/5		
1 mile Relay	WASHINGTON			3:40		
High Jump	SCRUBY (M)	CANTWELL (W)	Blanchard (W)	66 in.		
	manual (may	Tied for First	DEARCHAID (11)	oo m.		
Pole Vault	SCRUBY (M)	AINSWORTH (M)	THUMSER (W)	10 ft.		
		Tied for First	Control of the Contro			
Broad Jump	THUMSER (W)	CANTWELL (W)	Buck (M)	20 ft. 10 in.		
Shot Put	Runge (M)	NORTON (W)	GABLER (M)	31 ft. ½ in.		
Discus Throw	FLETCHER (W)	Weir (W)	KASEL (M)	110 ft. 1 in.		
Javelin Throw	Pesout (M)	MEEKER (W)	THUMSER (W)	147 ft. 2 in.		
	Springer	LD 70-MINERS 59.7		1 Tt 10. 2 III.		
	Jac	ekling Field, April 21	1999			
EVENTS	FIRST	SECOND	THIRD	TIME OR DISTANCE		
100 yd. Dash	Collins (S)	SMITH (M)	CHERRY (S)			
220 yd. Dash	Collins (S)	SMITH (M)	Jones (D)	:10-1/5		
440 yd. Dash	Runge (M)	Collins (S)	MARTIN (M)	:23-1/5		
880 vd. Run	Runge (M)	HEMBREE (S)	CARTER (D)	:52-3/5		
1 mile Run	Matthews (S)	HEMBREE	CHOMEAU (M)	2:07-3/5		
2 mile Run	HEMBREE (S)	CHOMEAU (M)	WATSON (D)	4:39		
120 yd. High Hurd.	NICKS (S)	FRIEND (D)	44	10:34-4/5		
220 yd. Low Hurd.	HOOVER (M)	WARREN (S)	SCRUBY (M)	:17-1/5		
Half mile Relay	MINERS*	Springfield	Ross (D)	:26-4/5		
1 mile Relay	MINERS*			1:34-2/5		
High Jump	ABBOT (S)	SPRINGFIELD (M)	D (3.6)	3:31-1/5		
ga aump	ABBUT (D)	SCRUBY (M)	Виск (М)	5 ft. 6 in.		
		Thompson (D)	Creswell (S)			
Pole Vault	CHERRY (S)	Tied for Second.	0 000			
1 ole value	CHERRY (3)	JOHNSTON (S)	Scruby (M)	10 ft. 6 in.		
		Tied for First.	AINSWORTH (M)			
			STEVENSON (D)			
Broad Lump	D (M)	A	Tied for Third.			
Broad Jump Shot Put	Buck (M)	CHERRY (S)	HASSELMAN (M)	20 ft. 11½ in.		
	GABLER (M)	WILLIAMSON (S)	Greer (S)	35 ft. ¾ in.		
Discus Throw	ABBOT (S)	Hines (D)	Dorris (M)	107 ft. 1034 in.		
Javelin Throw	PESOUT (M)	MUENCH (M)	HINES (D)	145 ft. 6 in.		
*Half mile Relay:	HOOVER, BUCK H	ASSELMAN and SMITH	1.	7 10 10. O III.		
One mile Relay: Hazelwood, Martin Walls and Runge.						

M. I. A. A. MEET

Warrenton, Mo., May 19th and 20th, 1922. Although failing to place in the relay races, two mile run, or high jump; the squad succeeded in getting a first, second and third in the other events, as follows:

880 yd. Run. RUNGE (2d) Broad Jump ...Buck

Herb Hoover's flight over the lows on a track equivalent to a plowed field is undoubtedly the fastest yet made in the Conference, although the M. I. A. A. records, of course, still read :27 flat.



BENJAMIN HOOVER

Showed some real speed in winning the low hurdles at the M. I. A. A. Meet.



CARLETON SMITH

A real speed merchant who hits only the high spots in the track.



HENRI CHOMEAU, Captain

Never falters or hesitates to keep up with the leaders and pass them when the tape is in sight.

Rollamo



CHARLES MARTIN

"C. L." should prove a valuable aid in building up our strength in the middle distance runs.



IVAN HAZELWOOD

Likes to run and gives his best at every opportunity.





ALBERT RUNGE

"A. E." is at home in the middle distance runs, and always gives a good account of himself.



ALBERT BUCK

Set a new track record for the school when he jumped 20 feet 11½ inches in the Triangular Meet.



EDWARD PESOUT, Captain-Elect.

"Eddie's" good for five points in any meet, in fact, he has won the javelin throw in every meet entered under the colors of M. S. M.



GEORGE GABLER

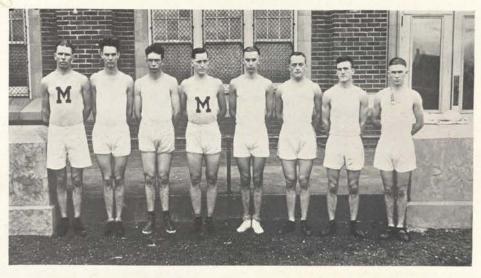
George's heave of the shot in the Triangular Meet helped along nicely.



CECIL WALLS

Small, but always on the job, as proven by his work on the mile relay team.





RUNGE, KNIGHT, NAWN, HAZELWOOD, REUH, SCHRAMM, MARTIN, FOSTER.

Cross Country

In dual competition with Central College, at Fayette, Missouri, the cross country team was overwhelmingly defeated by the same opponents who were sent back last year, with the short end of a big score. This seems surprising in view of the fact that the two teams might fairly be said to possess the same strength as the year before, and with two exceptions in the Miner line-up the same personnel.

In fact, giving due credit to the Central Eagles, both for their sturdy competition over a strange and rocky course, at Rolla, in 1921, and also for their splendid showing on their own course this year, no true comparison of teams plowing five miles in mud and rain can be made when one of those teams is equipped with spikes and the other runs in smooth soled shoes. This condition was due to the fact that the Rolla five-mile course is too rocky to permit use of spikes, and the Miners did not anticipate the navigation of smooth, soft mud free from rocks.

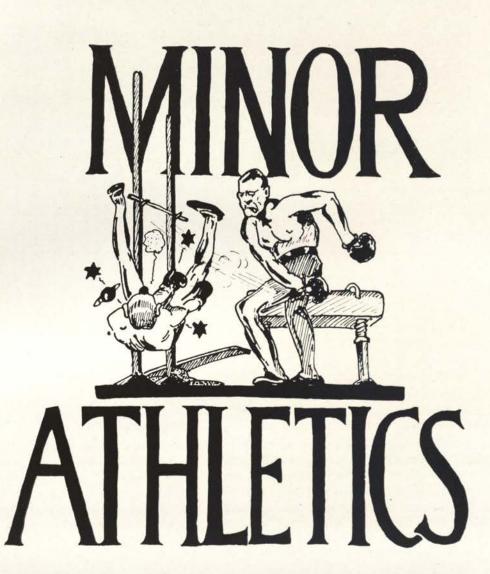
The gods on high Olympus must regard marathon or cross country running with ill favor indeed, for they never fail to loose the elements and drop the floodgates of Heaven upon the unfortunate contenders in this annual classic.

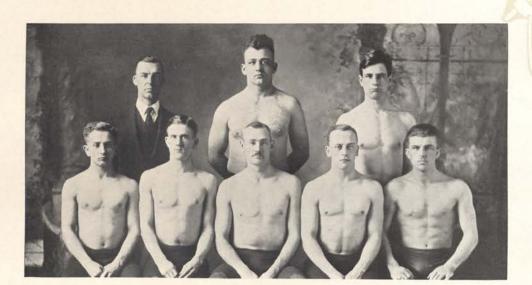
Central took the first five places, and finished all seven of their runners among the first ten men crossing the line. The Silver and Gold harriers finished in the following order: FOSTER, HAZELWOOD, NAWN, SCHRAMM and MARTIN.

1923

School of Mines Track Records

EVENT	Holder	TIME OR DISTANCE	YEAR
100 yd. Dash	F. L. Dover	:10	1915
	J. L. IMLAY		1916
220 yd. Dash	G. COWMAN	:22-2/5	1914
440 yd. Dash	G. COWMAN	:48-2/5	1914
880 yd. Run	G. H. BOYER	2:04	1906
	F. WHITE		1921
1 mile Run	G. H. BOYER	4:40	1906
2 mile Run	H. G. Hubbard	10:46	1921
120 yd. High Hurdles	M. S. MAZANY	:16	1909
220 yd. Low Hurdles	M. S. MAZANY	:25-4/5	1909
5 mile Cross Country Run	H. CHOMEAU	28:01	1921
High Jump	C. A. Peterson	5 ft. 8 in.	1916
Pole Vault	S. C. Macomber	11 ft.	1911
Broad Jump	A. E. Buck	20 ft. 11½ in.	1922
Shot Put	S. C. Macomber	41 ft. 9 in.	1908
Discus Throw	C. A. Runge	119 ft. 10 in.	1920
Javelin Throw	E. Pesout	158 ft. 6 in.	1921





Dennie (Athletic Director), Commack, Garr, Walker, Martin, Bishop (Captain), Schramm, Richardson.

Wrestling

Wrestling's second year at M. S. M. was a further proof that wrestling has come here to stay. With the interest and support given to wrestling this year continued into the future, there is no reason why we cannot develop a team which will rank with the leaders of this sport in the mid-west.

Opening the season with three regulars and our competing coach, Bishop, our prospects for a successful season were anything but disheartening. Soon men were developed to fill up the gaps, and readjustments were made which strengthened the team to some extent.

After two months preparation we went to St. Louis to meet Washington University. At that time we were far from overconfident, but our preparation made itself evident. We won an easy victory four bouts to two—Commack, Garr, Richardson and Walker winning for the Miners. Meeker and Breuer for Washington.

However, all good things must come to an end. The end to our good fortune was our defeat at the hands of Oklahoma A. & M. at home. In this meet our opponents sprung a surprise on us in the form of wheelbarrow wrestling. Thus taken off our guard and unprepared we bowed to them two bouts to four, Commack and Walker scoring for the Miners.

In our final meet of the season, we again meet Washington U., at Rolla. Due to our defeat by Oklahoma A. & M. we were taking no chances of losing this meet if it could possibly be averted. We were prepared for them, as may be seen by the outcome: The Miners winning all but one match. That match was lost to Captain Meeker of the Washington squad. The victorious Miners were Garr, Bishop, Richardson, Martin and Walker.

Thus ended the second season of wrestling at M. S. M. The only regret of the team was their misfortune in not having more matches scheduled. The team as a unit feel confident that they could have held their own with the best, and are looking forward to an opportunity of meeting the best in this section next season.



Edward Garr Light Heavyweight



RAY RICHARDSON Lightweight



Herbert Schramm Middleweight



George Bishop Welterweight, Captain



ARTHUR WALKER Flyweight, Captain-Elect



Kurt Commack Heavyweight



CHARLES MARTIN
Bantamweight

1923



Doster, Alquist, McAlpine, Smith. Kessler (Captain), Letts, Stogsdill, Walls.

Boxing

Boxing started off with a bang in its second year at M. S.M., and the only thing that kept the team from proving a sensation in the Missouri Valley was the lack of meets. As yet boxing is not a collegiate sport in the Missouri Valley, but with the coming of the season of 1923-24 the sport will be keenly contested in all of the schools.

Under the guidance of Capt. Kessler, the crack Miner team invaded St. Louis for their only meet of the season, trouncing Washington U. 4 bouts to 2. All bouts were keenly contested. Doster, Walls, Stogsdill, Letts, Kessler and Sargent were the Miner representatives. The triumphant men were Walls, Sargent, Kessler, and Stogsdill.

Although putting up a game battle, Doster could not solve the diminutive Piker's style, and lost a close decision. Walls, due to his ability to think fast and his clever foot work, gained an easy decision over his opponent. He was master of the situation at all times, having his man on the verge of a knockout. Stogsdill proved his ability to "give and take." Jim, a boxing veteran of four seasons, was forced to go an extra round in order to gain the decision. Letts lost a hairline decision, but forced the Washington captain to extend himself to the utmost to win.

Sargent, meeting a man 60 pounds heavier, was forced to bring in all of his football knowledge as well as his boxing craft. The Piker was insistent on using football tactics, but then they were of little value, for Sargent was on the alert and pummeled his bigger and heavier opponent at will.

Kessler vs. Randall proved the thriller of the evening. The scrappy captain of the Miners was forced to change his tactics in winning his match, simply because Randall was a tough "nut" to crack. Kessler's ability to punch and his footwork were too much for the hard hitting Washingtonite.

All in all the season was a success, and next year with matches with teams from Ames, Oklahoma and other big schools we should rank with the leaders.



Harry Kessler Welterweight, Captain



JIM STOGSDILL Lightweight



Cecil Walls
Featherweight



George Letts
Middleweight



Jim Sargent Light Heavyweight



Allie Doster Bantamweight

Prep Day

FINANCED by the generous action of a small part of the Class of '23 who diverted the surplus funds of last year's St. Pats celebration to the Boosters Club, the latter staged a Prep Day celebration on December 14, 15, 16. The Boosters Club invited prominent high school athletes to visit M. S. M. during these days. The athletes came from Missouri and nearby states. There were about twenty visitors. The entire school united in an attempt to show the youngsters an enjoyable time. During this time, the annual football banquet was given, also a play by the Players, and the Freshmen held their smoker as a windup to the celebration. The men were entertained by the various clubs and fraternities, and were all of desirable caliber. They were loud and unanimous in their praises of M. S. M., and several promised to matriculate at the institution in August to help contribute a winning football team. The event helped to "sell" the School of Mines to many of the high schools of Missouri, Illinois, and Oklahoma.

Sports

Unusual interest was shown in the Intra-Mural athletic tournaments during the past year. The Basketball tournament was won by the Lambda Chi's, altho the final outcome was in doubt until the last game, which the Bonanzas lost by a close score. The baseball series attracted even more interest. The Independents won, largely through the efforts of "Steamy" Powers, whose slants were too baffling for the Grubstakers' runners up in the series.

Pan-Flellenic Council

Sigma Nu

M. W. WATKINS

W. MIKELL

Kappa Alpha

N. M. ROUNTREE

D. L. MOODIE

Kappa Sigma

W. B. CRUTCHER

N. M. HAM

Pi Kappa Alpha

H. S. PENCE

W. E. H. KNIGHT

Lambda Chi Alpha

Rollamo

J. O. Hunt

R. A. LINDGREN



Sigma Nu

Gamma Xi

Installed January 3, 1903

FRATRE IN URBE J. McK. Southgate

FRATRES IN FACULTATE

JOSEPH W. BARLEY

HENRY H. ARMSBY

CHARLES J. MILLAR

FRATRES IN UNIVERSITATE

Seniors

KARL A. SCHMIDT

MARION W. WATKINS

HENRY E. ZOLLER

JEAN P. BRYAN

BILLY R. MENNIE

JOHN P. GORDON, JR.

GLEN A. DOOLEY

RAYMOND F. ORR

Juniors

WARING MIKELL

W. A. Schaeffer, Jr.

JOHN V. TERRILL

Sophomores

KARL F. HASSELMANN

CLAUDE N. VALERIUS

JOHN W. NOLEN

JAMES E. SARGENT

MIKE LEDFORD

Freshmen

WILLIAM T. HOEY

ERNEST E. RICHARDS

JOHN B. CHRISTOPHER

Pledge

RAY E. KOLLAR



Kappa Alpha Order

Beta Alpha Chapter

Installed April 27, 1903.

FRATRE IN URBE

CHARLES L. WOODS

FRATRE IN FACULTATE

C. Y. CLAYTON

FRATRES IN UNIVERSITATE

Seniors

G. T. DIERKING

D. G. GIBSON, JR

W. E. REMMERS

F. P. MATLACK

N. M. ROUNTREE.

Juniors

D. L. MOODIE

R. T. MUENCH

C. E. STOVER

M. L. TYRRELL

Sophomores

L. L. Burnet W. R. Groschan

S. M. RATHBONE

Freshmen

J. D. Crawford J. A. Holman W. H. Hays, Jr. R. Wightman

C. C. SMITH



Kappa Sigma

Beta Chi Chapter Installed December 19, 1903

FRATRE IN FACULTATE
EDWARD WOOLRICH

FRATRES IN UNIVERSITATE

N. M. Ham	Seniors	W. E. TEN EYCK
J. L. Gregg		C. R. CAMERON
A. B. Wilkerson	S. I. Zook	A. B. Parkhurst
W. B. CRUTCHER	Juniors	A. W. Naylor, Jr.
J. P. CAMPBELL, JR.		G. C. GABLER
E. B. O'Brien	Sophomores	WE
J. R. Kuhn		W. E. IVINS G. M. BUTTERLY
J. B. Gibson		J. R. BIRCHER
U С Р	Freshmen	
H. C. BIRCHARD		R. M. WHITE
J. B. Holfelder		J. B. SINNET
M. E. McLean		R. H. Butts



Pi Kappa Alpha

Alpha Kappa Chapter Installed December 2, 1905

FRATRE IN URBE R. G. KNICKERBOCKER

FRATRES IN FACULTATE

W. C. Zeuch

E. L. MILLER, JR.

FRATRES IN UNIVERSITATE

Seniors

HARRY S. PENCE

WILLIAM M. KEELING

MELVIN P. WEIGEL

VIRGIL LEE WHITWORTH

EVERETT H. CATHCART

Juniors

WILFORD S. WRIGHT

BOURKE SAMPLES

ARTHUR W. CROCKER

FRED J. UNDERWOOD

WILLIAM E. H. KNIGHT

Sophomores

KENNETH A. ELLISON

DONALD N. GRIFFIN

LORENZ A. FISHER

PAUL A. SMITH

THOMAS B. KENT

DONALD R. BAKER

Freshmen

MARK B. MILLS

WALTON M. GILBERT

HOWARD A. HERDER

ORVEN L. KOCH

BRUCE K. RICE

BENJAMIN F. MORGAN



Lambda Chi Alpha

Alpha Delta Zeta Chartered April 21, 1917

FRATRES IN FACULTATE

DR. W. D. TURNER

PROF D. F. UPDIKE

FRATRES IN UNIVERSITATE

R. A. LINDGREN

W. P. GATTS

J. G. Huckins

C. B. KALEY

C. C. Tevis

P. C. HATMAKER

F. K. M. HUNTER

Juniors

A. E. Buck

J. O. Hunt

C. A. WALLS

M. L. ATKINSON

J. M. WASMUND

H. E. McBride

O. E. EBLE

Sophomores

J. A. REID

W. A. Burg

L. B. HOPKINS

J. L. PASLEY

I. G. KNOEBLE

C. B. NEIL

F. C. Schneeberger

T. H. KENNEDY

C. L. KITCHEN

Freshmen

Rollamo

G. D. NEWCOMBE

R. E. KEIM



Calendar 1923

Jan. 6. M. I. A. A. split.

Jan. 8. Board of Directors of M. S. M. Alumni Association meets.

Jan. 10. Opening of basketball season. Miners-44, Culver Stockton-38.

Jan. 12. Miner Dance. Hot time. Dr. Ivan Lee Holt lectures on "America and Europe."

Jan. 16. Miners-21, Drury-22.

Jan. 19. Miners wipe up Washington U. in boxing and wrestling.

Jan. 26. Miners-18, Concordia-41.

Feb. 2. V. F. W. wiggle. The much planned for Junior Ford given away.

Feb. 6. Miners-28, Drury-16. H. H. A. leaves to see how things are run.

Feb. 10. Quo Vads hold annual dam-p party in honor of pledges.

Feb. 15. Seven Keys to Baldpate. Girlie blows out the lamp.

Feb. 16. Valentine's Dance.

Feb. 17. Wrestling meet Okla. A. & M. Good showing for Miners.

Feb. 21. Eleanor Howerton-Parkhurst.

Feb. 22. Bonanza Club gives afternoon tea! Can y' imagine.

Feb. 25. Lambda Chi's buy Campbell's house.

Feb. 28. Miners-31, Kirksville-26.

March 9. Another clean-up on Washington in wrestling. Only lost one bout.

March 12. "Just Jones." M. S. M. Players.

March 15. The arrival of the Fair Damsels, Rain!

March 16. Senior! KOW TOW!

March 17. Close of a very successful St. Pat's.

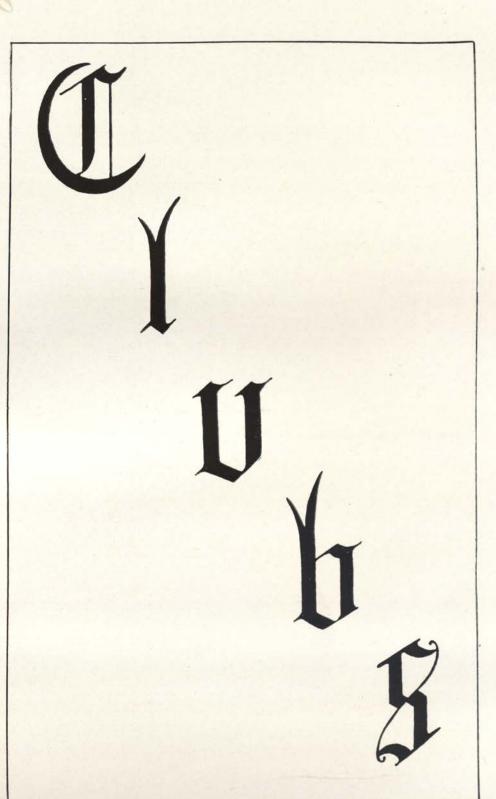
March 18. Last fond tear wiped away as No. 4 leaves. Now for the bull.

March 19. Seniors leave on trip.

March 29. Baseball series starts.

April 6. Rollamo dance. Well attended?!\$?¶ ..*

May 5. Commencement?



The Grubstakers Club

Founded September 15, 1902

FACULTY Roy O. Erickson

GRADUATE

ERNEST S. WHEELER

MILTON W. WALLACE

UNIVERSITY

W. EARL TETER

Seniors

Edward Pesout

HENRY C. BUSER

Juniors

RAY McBrian

ARTHUR W. WALKER

WALTER H. WEIMER

HOMER H. HEIDTMAN

IRA SUBLETT

ROBERT W. ALQUIST

WYATT E. SIMPSON

CARL W. B. SITZLER

George B. Letts

Sophomores

CHARLES L. MARTIN

John A. Rood

Freshmen

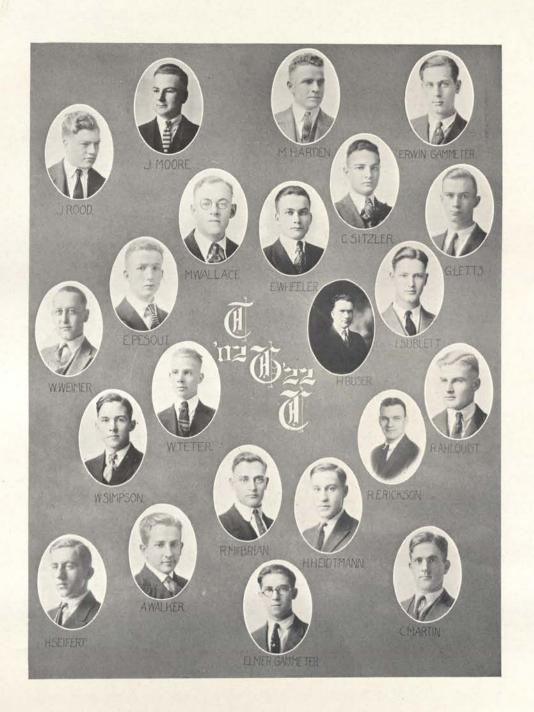
ERWIN GAMMETER

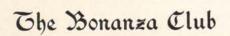
HAROLD W. SIEFERT

ELMER GAMMETER

James Moore

MILTON J. HARDEN





D. S. Mosby

GRADUATE

E. M. Guy

UNIVERSITY

Seniors

A. A. BOYLE

F. Z. Meeks

S. H. STUART

E. R. TRAGITT

E. F. CHAPIN

R. E. RICHARDS

P. M. Brown

T. M. THOMPSON

H. J. SHIERMEYER

H. F. VALENTINE

Juniors

C. L. Kemper

P. F. THOMPSON

M. M. McClelland

E. B. SANDERS

Sophomores

A. V. Doster

A. L. HEITMANN

W. F. HAUCK

E. J. GORMAN

Freshmen

P. N. ASHLOCK

G. B. SCHROEDER

W. I. SHORT

H. M. DIERS

D. L. ARRA



The Prospectors Club

M. L. FREY

GRADUATE

HERBERT MUNDT

UNIVERSITY

Seniors

VANCE H. WEBSTER
RUDOLPH G. KASEL
DAVID FRANCIS_WALSH
STEPHEN M. BURKE

RAYMOND E. MURPHY GEORGE A. ZELLER JOHN MILTON REEVES JOSEPH J. HABERTHIER

CYRUS W. MAGALIS

FRED C. MARTIN

Juniors

JAMES A. WESTGARD

CARLOS G. BOWERS

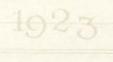
Sophomores

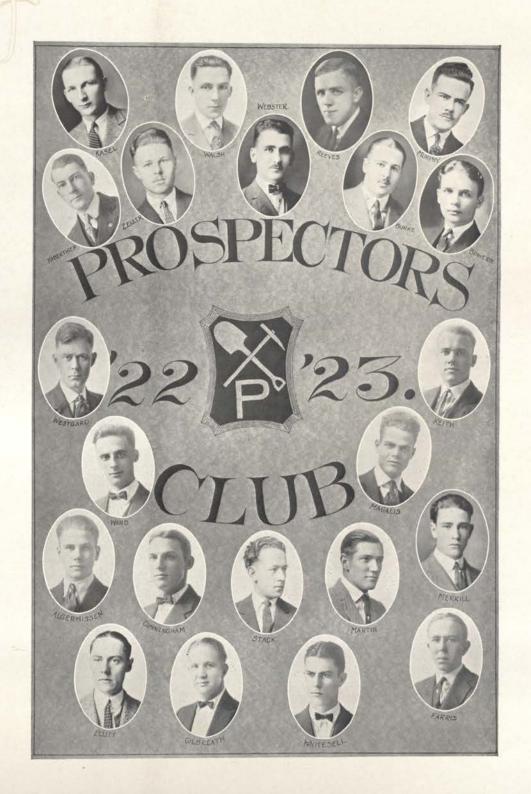
CLEMENT G. CUNNINGHAM RONALD D. WARD SYLVESTER G. ALGERMISSEN HARRY F. BOSSERT FRANK C. KEITH
WILLIAM STACK
WILLIAM MERRILL
PAUL E. WHITESELL
WILLIAM L. FARRIS

Freshmen

DEWEY S. ELLIFF

CURTIS GILBREATH





I'Abri

Established in 1921

WM. J. ALTON

JOHN RIDDLE

A. R. Morris

EARL SNELL

E. M. PARKER

R. P. Nelson

B. L. CHANEY

E. W. WILBURN

LEE ELLIOTT

GEO. BERRY

B. Bratcher

D. M. FOLLETTE

DELAR KIMBLE

G. F. WILLIAMS

J. D. Behnke

E. W. WADE

D. L. CRIPPEN

F. E. WEAKLEY

AUGUST HERIGON

J. A. TAYLOR

F. A. Pool

J. E. KILPATRICK

J. M. McDonnell

NICHOLAS WOLFE

WM. COFFMAN

MARTIN McDonnell

B. F. LYONS

J. L. SANDERS



Independents

Seniors

B. F. HOOVER

D. ZIMMERMAN

A. F. Mohri

L. THOMY

E. H. McAlpine

H. G. HUBBARD

H. C. MAREK

P. F. MARTYN

F. C. MULFORD

W. S. FRAME

R. ZEVALLOS

W. C. LAY

H. Drouot

Juniors

W. H. BACKER

F. O. FINK

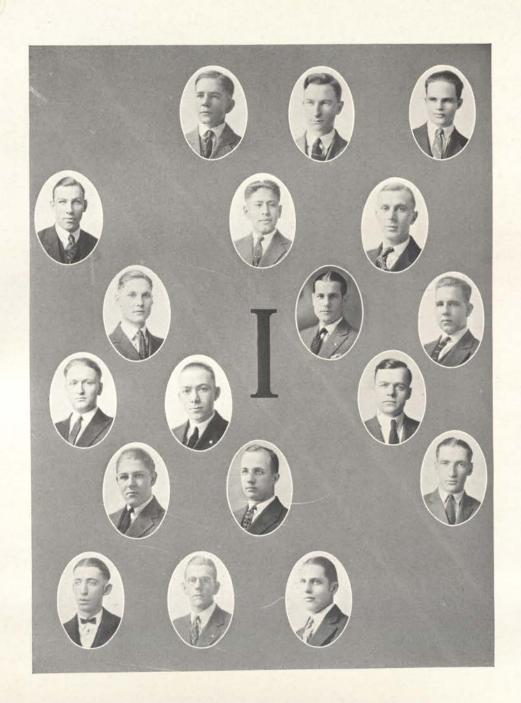
Sophomores

H. R. BERRY

M. F. Zogg

Freshman

J. H. GRADY



Independents

Seniors H. R. Powers G. G. HARRIS L. LINZER E. L. Fipps P. J. HEWGER J. WANEMACHER F. LEACH Juniors J. L. Andrews D. B. Jett R. A. BLOUNT H. O. SCHRAMM D. J. Flesh Sophomores O. Horrom J. W. FLEMING J. N. HARRIS C. C. IRVING Freshmen C. A. ANDERSON W. H. HARRISON

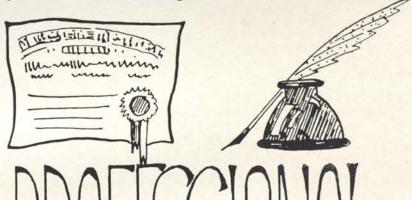
H. T. RAGLE

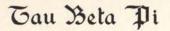






M. S. M. CAMPUS FROM THE AIR





Beta of Missouri Installed December, 1906

FRATRES IN URBE

V. L. Austen

P. R. Cook

H. A. BUEHLER

E. L. WILLIAMS

FRATRES IN FACULTATE

C. Y. CLAYTON, Mo. B.

H. O. GARST, Mo. B.

G. R. DEAN, Mo. B.

J. R. GUITERAS, N. Y. A.

C. R. Forbes, Mich. B.

R. O. Jackson, Me. B.

C. H. FULTON, N. Y. A.

K. K. KERSHNER, Mo. B.

L. E. GARRETT, Mo. B.

C. V. Mann, Colo. B.

D. F. UPDIKE, Mo. B.

FRATRES IN UNIVERSITATE

P. L. BLAKE

W. E. TEN EYCK

C. G. Bowers

D. F. WALSH

Asia Van Nasa

D. I. HALSH

W. S. FRAME

V. H. Webster

M. L. FREY

M. P. WEIGEL

J. L. Gregg

TY7 1 YYY

F. K. M. HUNTER

W. A. WERNER

J. A. Westgard

D. B. Jett

E. S. Wheeler

R. A. LINDGREN

W. S. Wright

R. E. MURPHY

G. A. Zeller

C. W. B. SITZLER

H. E. ZOLLER



Theta Tau

Iota Chapter
Installed December, 1915

HONORARY MEMBER H. A. BUEHLER

FRATRE IN FACULTATE
CAPT. W. L. MEDDING, Eta., '17

FRATRE IN URBE E. K. SCHUMAN

FRATRES IN UNIVERSITATE

	THE RESERVE AND ADDRESS OF THE PARTY OF THE
V. H. Webster	M. L. Fry
H. E. ZOLLER	M. L. Atkinson
K. A. Schmidt	B. F. Hoover
H. S. Pence	W. E. H. KNIGHT
M. W. WATKINS	W. P. Gatts
J. P. Gordon	J. P. CAMPBELL
W. A. WERNER	C. Cunningham
W. S. Frame	K. F. HASSELMAN
D. L. MOODIE	Leo Burnette
W. M. KEELING	J. H. Reid
C. C. Tevis	K. A. Ellison
P. C. HATMAKER	R. W. Alquist
R. E. Murphy	W. H. WEIMER
S. H. Stuart	S. M. RATHBONE
E. S. Wheeler	G. F. BARNWELL
R. O. Erickson	H. J. SHIERMEYER



Sigma Gamma Epsilon

Eta Chapter

HONORARY MEMBER

Prof. C. Y. Clayton

Prof. C. R. Forbes

Prof. D. F. Updike

Prof. Josiah Bridge

Prof. M. H. Thornberry

Prof. G. A. Muilenburg

Major C. E. Cooke

A. V. Doster

ACTIVE MEMBER

DR. C. L. DAKE

D. N. GRIFFIN

H. F. VALENTINE J. L. Gregg E. F. CHAPIN W. E. TETER C. B. KALEY F. K. M. HUNTER R. A. LINDGREN R. F. ORR A. B. PARKHURST W. E. TEN EYCK H. C. Buser W. E. Remmers C. L. KEMPER W. S. WRIGHT M. M. McClelland C. G. BOWERS J. M. WASMUND G. C. GABLER B. SAMPLES A. E. Buck R. A. BLOUNT W. E. IVINS

RAY McBRIAN



Satyrs

Honorary Sophomore Organization Established October, 1913

Officers

G. C. Cunningham Grand Chief

Wm. Hauck Grand Vice-Chief

F. C. Martin Grand Scribe

Active Members

G. C. Cunningham F. C. Martin Wm. Hauck C. L. Martin

Associate Members

S. M. Burk

E. M. Guy

C. W. B. Sitzler

C. L. Kemper

D. S. Mosby

H. O. Schramm

C. W. B. Sitzler

S. H. Stewart

P. F. Thompson

V. H. WEBSTER

P.edges

C. A. Anderson

D. L. Arra

W. H. Harrison

P. N. Ashlock

H. M. Diers

D. S. Elliff

E. R. Sievers

E. Gammeter

C. L. Gilbreath

W. H. Harrison

H. W. Siefert

E. R. Sievers

T. H. Thatcher



Phi Kappa Phi



Honor Society
M. S. M. Chapter

Honorary Member
John Carleton Jones

Active Members

CHARLES HERMAN FULTON
HENRY HORTON ARMSBY
CLARENCE EDWARD BARDSLEY
JOSEPH WAYNE BARLEY
CHARLES LAURENCE DAKE
GEORGE REGINALD DEAN
CARROLL RALPH FORBES

FLOYD HILL FRAME
ELMO GOLIGHTLY HARRIS
RAYMOND OLDEN JACKSON
KARL KENNETH KERSHNER
WILLIAM DEGARMO TURNER
DONALD FOSTER UPDIKE
ERNEST STERLING WHEELER

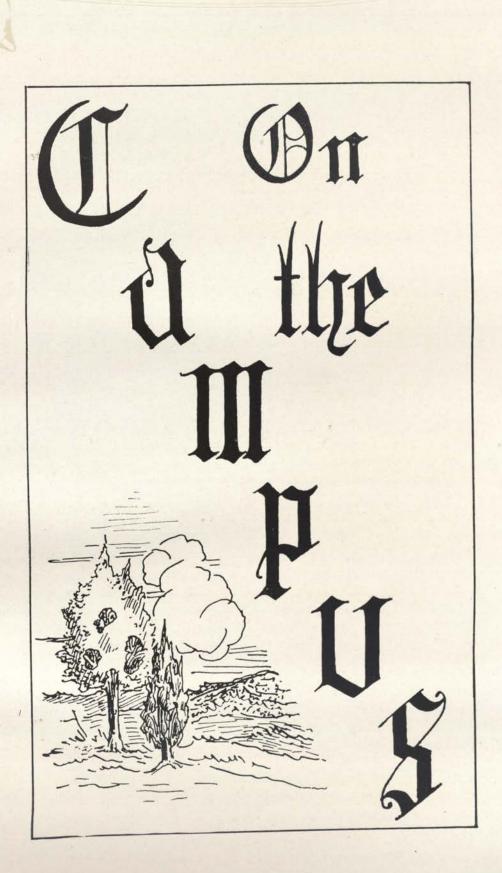
LEON ELMER WOODMAN

Elected in 1923

WAYNE SHANNON FRAME MUIR LUKEN FREY JAMES LAURENCE GREGG

LYNN HARBISON

ARMINE BRENE JEWELL WALTER AUGUST WERNER GEORGE AUGUST ZELLER



Student Council

1922-23

Members

Seniors

Juniors

W. S. FRAME

W. MIKELL

H. S. PENCE

M. M. McClelland

V. H. Webster

Officers

W. S. Frame President
W. Mikell Secretary

THE Student Council at M. S. M. was first organized in 1911. It has existed in its present form—three representatives from the Senior class and two from the Junior class—since 1917.

In supporting the precedents established in former years, and furthering the interests of the school along new lines, the present Council has spent a very active year. We feel that the position of the Student Council has been strengthened, and that the student governing bodies of following years will benefit from our work.

This year there was a demand that the organization which performs the functions of student government be composed of a more representative body than the Student Council as now selected. To this end a new body was organized, composed of representatives of each of the social groups on the campus. This body is known as the Senior Council. Its members for the coming year number fifteen. It will perform all the functions heretofore delegated to the Student Council, and it is hoped that it will obtain the support of the student body and the approval and goodwill of the faculty. It seems reasonable that the students should grant and the faculty allow the Senior Council to supervise activities, regulate elections, make recommendations in cases requiring disciplinary measures, and be responsible for the keeping of the traditions and customs of the school. With the precedents handed down to it by the Student Council, the Senior Council should become an active and influential organization.





Quo Vadis

A No. 1 Jungle

Colors BLACK AND BLUE

Metto "PLEASE MUM"

Flower Dog Fennel

Boe on Faculty "BOOTS" CLAYTON

Bees in Burg

"KM" HUNTER "KETCHEM" PENCE "Toughy" Gibson "NEWT" ROUNTREE

"FRITZ" MATLACK "CHUCK" KALEY

"SKIPPER" HUCKINS

"Soak" Griswold

"RED" HOPKINS

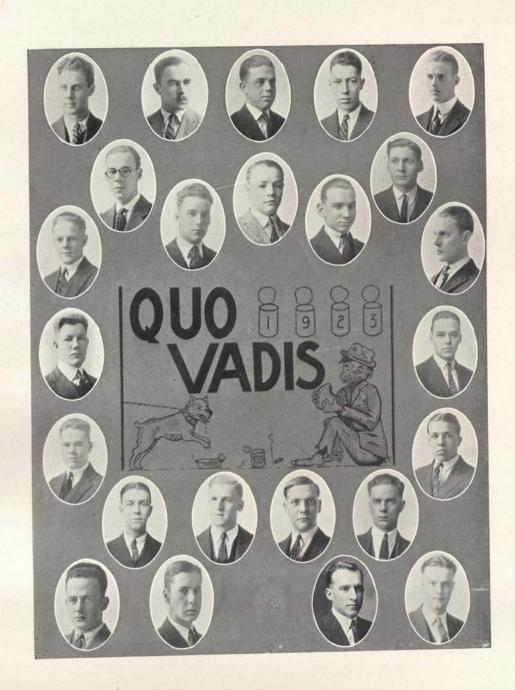
"AL" BUCK "RED" SANDERS "CEC" WALLS "MUDDY" MOODIE "TOGT" WASMUND "MAC" McClelland

Kids "OYSTER" DOSTER "FEATHERS" EBLE "HUNGRY" KEMPER "TARZAN" GROSCHAN "ATTIE" ATKINSON "BUDDIE" McBRIDE "BAL" SAMPLES

"SLITZ" SCHNEEBERGER

"TAWM" MUENCH "Potosi" Blount

"A thousand miles without a red, A side door Pullman for a bed, At some kind dame's freely fed, A jolly good fellow, when all is said."



The M. S. M. Players

DURING the second year of its organization, just closing, the M. S. M. Players has proven its worth as a campus institution, even surpassing its own efforts of last year in the quality of plays offered and the dramatic ability shown by

the casts presented.

Under the management of an able group of officers, and under the excellent direction of Dr. H. H. Armsby and J. P. Gordon, Jr., the Players have presented light comedy and melodrama with equally pleasing results, and as many of the casts of the closing year will be back to entertain the audiences of next year the prospects of amateur theatricals at M. S. M. for 1923-24 look very bright.

Officers for the Year 1922-23

M. W. WATKINS	President
Miss Bertha Fulton	Vice-President
J. P. Bryan	Secretary
H. H. Armsby	
J. H. Reid	Business Manager
G. A. Dooley	
E. T. CAMPBELL.	

Members	
Prof. H. H. Armsby	F. Jankosky
Dr. J. W. BARLEY	C. B. Kentnor
D. R. Baker	M. A. Ledford
MISS HELEN BAYSINGER	Leo Linzer
J. P. Bryan	F. P. MATLACK
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MISS HAZEL DENT	Mrs. C. E. Stover
G. A. Dooley	J. V. TERRILL
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Miss Marion Fulton	D. F. UPDIKE
J. P. Gordon, Jr.	J. M. WASMUND
E. M. Guy	M. W. WATKINS
MISS EMILY HARRIS	H. V. WHITE
G. G. Harris	V. L. WHITWORTH



The Missouri Miner

THE school year 1922-23 has brought its full measure of vicissitudes to the Miner. Many unforeseen and perplexing conditions have come up—conditions which have called for clear thinking and decisive action; but the staff has met every one and come out winner. The result is that this past year has been one of the most successful the Miner has ever had.

In September, Frey took charge as "chief". He had as editorial assistants: Burke, Wheeler, Wilkerson, Schaefer, Schneeberger and Valentine. All of these were valuable, because of their own work and because of the training they could give to new men. During the year, Baker, Gorman, Whitworth and Clearman were added to the editorial staff. Baker has proven a good man in a general way; Gorman has taken over athletics and is handling sport topics in a very creditable manner; Whitworth handled aesthetics and society; Clearman took Valentine's place as vocate editor.

Zeller headed the business staff throughout the entire year, and a large measure of the paper's success is due to his sound business policy. In September he had as assistants Watkins, Ellison, Reid and Ivins. Later on Cunningham and Newcomb were elected. Underwood returned in January.

On December first Frey was forced to resign as editor, since the job of "chief" was taking too much time from the Bureau of Mines. An able successor was found in Freddie Schaefer, but unfortunately, he left school in January. The new man for the job proved to be Wilkerson. He directed affairs very well until the eventful April first.

On that day the fraternities withdrew their men from all school activities. Frey, Burke, Wheeler, Zeller, Cunningham, Clearman and Gorman were the only ones left on the Board. They decided to "carry on," and elected Frey editor once more. Soon the split in the student body was mended, and, although all of the former members were re-elected in the latter part of April, the picture was made up in the interim and shows only seven men mentioned above.

The end of the school year sees the Miner Board once more united, and ready to start next year with chances of even better success than it had this year. The Board looks back and remembers the brighter things: the Hallowe'en dance (best one yet), some timely jokes, the scramble after copy and ads, and, best of all, THE BANQUET. The Board is losing some good men, but with Schneeberger as editor and Cunningham as business manager, success is assured.



Pipe and Bowl

Object

To promote good fellowship among the students of Missouri School of Mines

C. R. CAMERON

R. F. ORR

B. R. MENNIE

FRANK HUNTER

A. E. Buck

HANK OWENS

D. L. MOODIE

W. B. CRUTCHER

D. N. GRIFFIN

F. C. Schneeberger

B. Samples

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A. W. NAYLOR, JR.

J. H. REID

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Chaplain

REV. S. P. STOCKING

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Virgil A. Faulkner Post, 473

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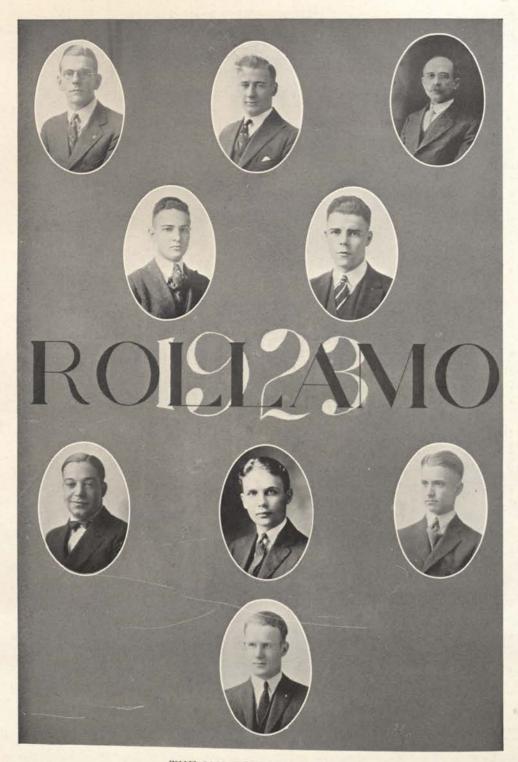
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Fink

FLESH

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THE 1923 ROLLAMO BOARD
TENEYCK

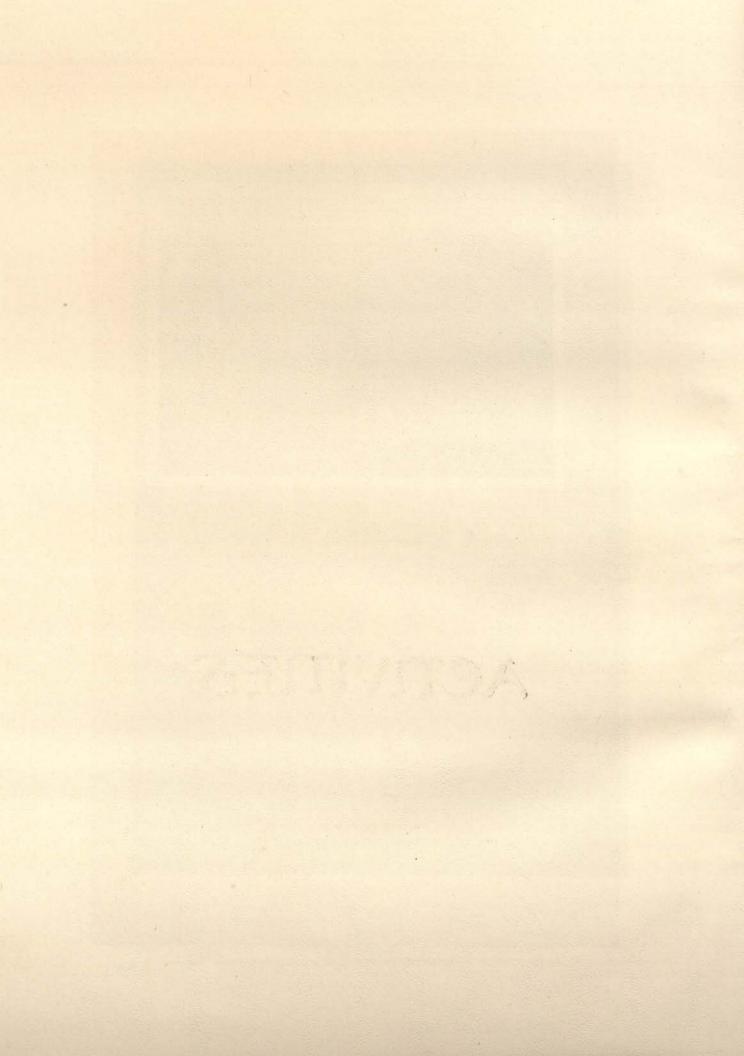
BOWERS CAMPBELL

MIKEL.

Kahlbaum Schaeffer



ACTIVITIES



St. Patrick's 1922

THE weather man was really considerate and proved himself a true engineer and supporter of Old St. Pat, by giving us one of his best days for the big celebration. Friday, March 17, dawned a glorious day, fit only for the Old Man himself on his annual inspection of "Rolla".

Long before the appointed time of 10:25, natives, students and visitors were thronged around the "Union Station" impatiently awaiting the first glimpse of the Saint and his retaining party. After waiting ages a great shout of relief and enthusiasm rose up, for far down the track could be seen the "private" car approaching with its royal passenger.

When the car finally came to a grinding, shrieking stop, St. Patrick, out of his great heart, paused sufficiently to allow the Pathe News Service camera to obtain a "close-up" of the party.

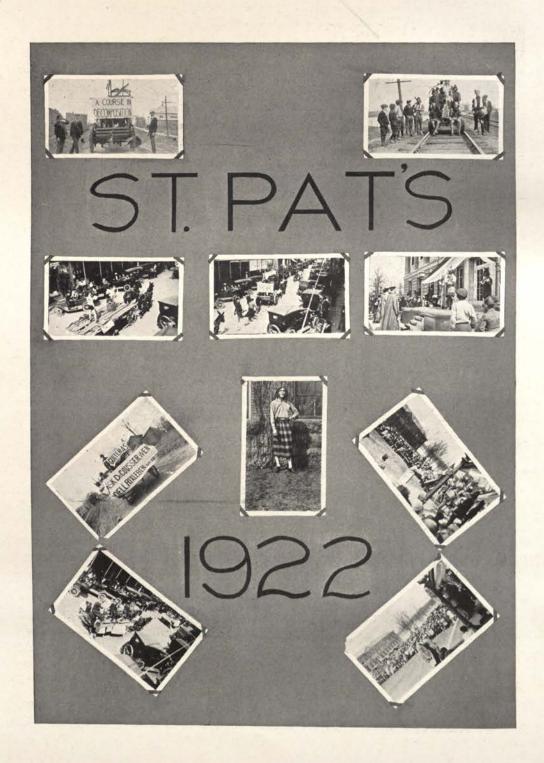
As St. Pat took his place at the head of the waiting line of floats, the band lead by Mr. John W. Scott struck up, and the parade was off. A great deal of work had been expended on the floats, and as they filed down the streets between the lines of awe-struck spectators, they made a beautiful and impressive sight.

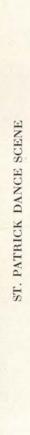
The parade ended at Parker Hall, where the knighting ceremonies were to take place. As the great Saint, impersonated by David Walsh, took his place on the platform, the crowd did him homage and obeisance by "kow-towing." Dr. Chas. H. Fulton was the first man to be called forward and knighted. It was then noticed that the Blarney Stone was not on hand. After much searching and questioning it was finally found safely stowed away in Dan Jett's "little red bag." When the stone had been put in place, the seniors were called forward one by one and dubbed Knights of St. Patrick.

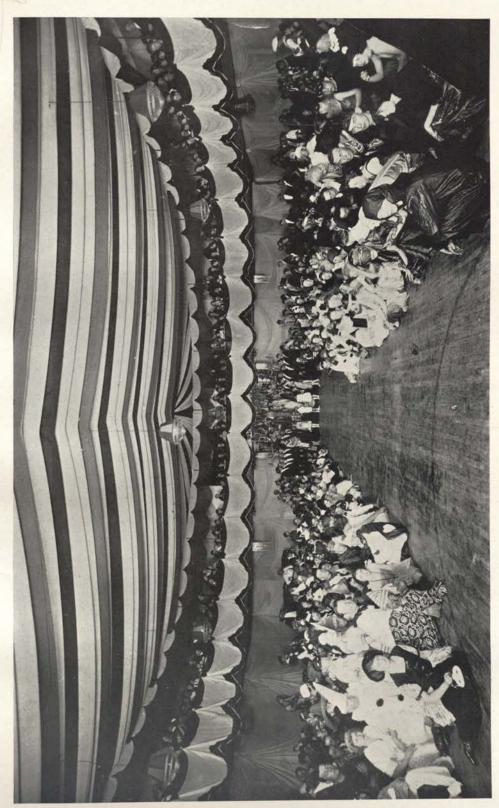
When the knighting ceremonies had been completed, St. Pat disappeared. His next and final appearance was made that night about 11 o'clock, when he suddenly came onto the dance floor and commanded everyone to "kow-tow". He was followed by the former Queens and their escorts. When all had taken their places he bade the crowd to "kow-tow" in honor of the Queen. All eyes were then turned toward the door as Miss Margaret Sally, the beautiful and gracious Queen, made her entrance.

After the Queen had advanced to her position before St. Pat, been crowned and officially proclaimed the Queen of 1922, the Grand March was begun. The march was lead by Dr. Fulton with Mrs. Wm. O'Mara and Col. and Mrs. Woods. At the conclusion of the Grand March, beautiful programs were distributed and the 425 couples continued with the dance.

The Quadrangle Orchestra from Columbia furnished the music for the dance, and the entire crowd was held in the enchanting snares of their syncopation until the break of day.







Senior Grip

MINE cages, stopes, drifts, tipples, retorts, acid plants, blast furnaces, roasters and a hundred and one other things make the senior trip an event long remembered. The trip has become the finishing touch to the Mining, Metallurgy and Chemistry courses.

During the past year three different groups have had the pleasure (?) of making the journey; the class of '22 in April of last year, the summer school gang made it via Fords in June, and the class of '23 just after St. Pats this year.

The metal miners, under the able chaperonage of Professors Guiteras and Muilenburg, took in an Illinois coal mine, a zinc smelter, a lead smelter, the leading lead mines of Southwest Missouri—the greatest lead district in the world—a journey to Iron Mountain, which is being developed again, a strenuous jaunt up Shepard Mountain and Pilot Knob, and finishing up with a visit to the huge elephant rocks of Graniteville.

The mining geologists, with Professor Bridges at the wheel, toured across country studying the geology of the different sections and bringing back a half ton or more of Southwest Missouri.

The petroleum geologists went down to the Oklahoma oil fields with Professors McKee and Dunlap.

The metallurgists, assisted by Professors Clayton and Thornberry got cold feet after a trip underground, and preferred to spend most of the time visiting the metallurgical plants in and around St. Louis.

The chemists, with Dr. Turner, visited the important chemical works near St. Louis.

As for the hundred and one other things, the seniors remember them, the underclassmen will experience them. Black jack, crowded hotels, wet mines, hot smelters, "chow", and miles of walking are some of the things experienced.

The senior trip is valuable. It affords first-hand information. It also creates a closer association between the men. It does also show the budding graduate that engineering is hard work.

The Vocate Smoker

O^N the evening of Armistice Day, 1922, there assembled at Jackling Gym one of the peppiest bunches of faculty, student and miscellaneous members of Rolla's *Societie les Hemmes* that we have ever been fortunate enough to see. But, we ask, why shouldn't they have been full of the old pep? For the occasion was indeed a gala one. The class of '41 was giving the first smoker for the combined enjoyment of everyone, and we'll say it was some smoker.

To start off, smokes of all kinds (pipes excluded) were passed around by worthy sons of Mars. Dr. Fulton opened activities by a few well directed remarks.

Schneeberger was announcing for vocates, and may we state here that he was also umpiring. Announces Schneeberger that the first number will be a battle royal between five dusky Ethiopians. While it was a purely family fight it waxed hot at times. After the last darky was dragged (?) from the floor, there appeared none other than our famous fistic captain, Harry Kessler, accompanied by his brother Bob, who by the way was the runner-up in the light weight tournament, held recently in St. Louis. In spite of the identical maternal origin of the combatants, it was a wicked exhibition of fists and thoroughly enjoyed by all.

When the athletic events were over, the members, exponents (we'll say anything you wish) of the finer and higher art were brought on. As usual the old Miner pep, so evident throughout the evening, reached a still higher pitch when *les belles femmes* started the gang going with the "Mining Engineer." Then the fun began. These young fullbacks commenced picking out and picking on unsuspecting young victims from the audience, much to the amusement of all.

We won't go into details, but we'll just give you this much to go on—we can swear to one young, honest, straightforward Lochinvar who climed to the ceiling.

The last on the program was one of Allah's fairest flowers, who, by way of her acting, could lead two well regulated armies to their doom, were she only to use her perfect control. I know of no English sufficiently glowing or applicable to describe her, but were I only a Turk, by the gods I could rhapsodise about her.

Well, we rounded out the evening and as we traveled homeward we looked forward to another smoker next year equally as good or better, but we'll say right here, it's going to be a long time till we'll see another exhibition of '41 pep equal to this

The Plays

During the past year the M. S. M. Players have offered only three plays, but the success of each and the quality of acting displayed are justification enough for the meager number. It is proposed to present "Fair and Warmer" for the second time during commencement, and those who witnessed its first presentation will join us in the belief that this play, with the cast of its first performance, will be a commendable offering to the commencement guests and those who were not fortunate enough to see it when it was presented just before Christmas.

"FAIR AND WARMER"

A Three Act Comedy by Avery Hopwood.

Parker Hall, Dec. 15, 1922,

Benefit M. S. M. Booster's Club.

Business Staff

Director	H. H. Armsby
Business Manager	J. H. Reid
Stage Manager	L. R. Springer
Property Manager	C. F. Schaefer, Jr.
Assistant Property Manager	E. E. RICHARDS

Cast of Characters

Billy Bartlett	J. P. BRYAN
Laura Bartlett, his wife	
Jack Wheeler, his friend	J. P. GORDON, JR.
Blanny Wheeler, Jack's wife	BERTHA FULTON
Phillip Evans	L. THOMY
Tessie, Laura's maid	
Harrigan / of the Monhatton Storage Co	JE. T. CAMPBELL
Harrigan of the Manhattan Storage Co	F. Jankosky

Music by the M. S. M. Varsity Orchestra.

We quote from many sources in saying that this play was by odds the greatest success ever presented by the Players. The lines and dilemmas constitute a mirth producing effect superior to those of any other play ever offered by the Players, and, when coupled with the efforts of an efficient and thorough business staff and some really meritorious acting by a well chosen cast, the result was one continuous laugh, from the first line of the lovely wife of Billy, till the final curtain.

Especial praise is accorded Miss Bertha Fulton and J. P. Bryan for the finished acting and perfection of details that made their parts the outstanding success of the action, especially in the difficult drunk scene. They could not have made even these inherently funny parts what they were without the excellent support of the rest of the cast, and the praise, therefore, extends impartially to Miss Helen Underwood as the dissatisfied wife, J. P. Gordon as the friend who keeps his wife guessing, to his own final undoing, L. Thomy as the prenuptial lover of Laura, Miss Eleanor Howerton as the sympathetic maid who made such effective "pick me ups," and E. T. Campbell and F. Jankosky as the furniture rustlers from the Manhattan Storage Company.

The "skyscrapers" Billy and Blanny mixed, the discovery of Billy and Blanny on the divan and under the bearskin rug, respectively, "the pick-me-ups" Tessie made for Billy, the dilemma of the bathroom which almost sent Laura home to Mother, the picture Jack painted of his frantic night following the "Mystic Shrine" meeting, the discovery of Blanny under Billy's bed when Harrigan and Pete removed the mattress, the impassioned love speeches of Phillip and the final denoument which brings the reconciliation of Jack and Blanny and of Billy and Laura will all be recalled with pleasure by those who witnessed this presentation.

"SEVEN KEYS TO BALDPATE"

A Mystery Farce by Geo M. Cohan Parker Hall, Feb. 15, 1923. Benefit 1923 Rollamo.

Business Staff

	66.
Director	J. P. Gordon, Jr.
Supervising Director	H. H. Armsby
Business Manager	J. H. REID
Stage Manager	G. A. Dooley
Stage Manager Assistant	W. I. HOEY
Property Manager	E. T. CAMPBELL
Property Manager Assistant	J. V. TERRILL

Cast of Characters

Elija Quimby, caretaker of Baldpate Inn	J. P. Bryan
Mrs. Ouimby, his wife	MARY ELIZABETH CAMPBELL
William Hallowel Magee, a novelist	H. R. Powers
John Bland, Hayden's right-hand man	L. THOMY
Mary Norton, a newspaper reporter	BERTHA FULTON
Mrs. Rhodes, her chaperone	EMILY HARRIS
Peters, the hermit of Baldpate	D. R. Baker
Myra Thornhill, the blackmailer	Marion Fulton
Lou Max. Mayor Cargon's "Man-Friday"	C. N. VALERIUS
Jim Carbon, Mayor of Reuton	E. T. CAMPBELL
Thomas Hayden, President of the Asquewa	an-
Reuton Ry. Co.	
Jiggs Kennedy, Chief of Police of Asquew	an
Falls	F. Jankosky
A plain clothes man	M. A. LEDFORD
The owner of Baldpate Inn	G. G. HARRIS

Music by M. S. M. Varsity Orchestra.

This play had a very different plot and motive from any heretofore attempted by the Players, and gave the cast a chance to show what they could do with heavy parts. The scenery and lighting effects were more elaborate than are usually attempted in amateur college theatricals and a great amount of credit is due to the business staff and especially to the director, stage and property managers, and their assistants that these effects were carried out with such excellent attention to detail and with such appropriate results.

J. P. Gordon, acting once more as director, is especially commended for handling so large a cast for such a favorable production. The exactions of this play were well assumed by the cast, and, as a dramatic production, this play may well be said to have marked the climax of the Players' career.

The principal roles were carried by Miss Bertha Fulton and Mr. Jack Powers, both of whom carried their parts with the ease and aplomb of seasoned actors. Mr. Powers carried an extremely heavy part, and is to be congratulated on the finished ease with which he sustained his role throughout. Miss Mary Elizabeth Campbell and J. P. Bryan, taking small but difficult parts, were well received and showed the training of past acting experience. L. Thomy and C. N. Valerius, as hard boiled gunmen were well cast and helped maintain the tone of the play in its dramatic climaxes. Misses Marion Fulton and Emily Harris gave pleasing and picturesque interpretations of their respective roles as might have been expected by those who have seen them in past presentations.

A new star arose among the players when Frank Jankosky entered on the line, "Open this door in the name of the Law." Mr. Jankosky spoke only one line in "Fair and Warmer" but his acting was such that much more was expected by those who saw him at that time. His characterization of the clever and sarcastic Chief of Police in this play opens a prospect of much promise for future audiences who may see him in Player presentations.

Another very commendable characterization was that of Peters, the hermit, as played by Mr. D. R. Baker. Baker is a new player, and his acting of this difficult part was a surprise and a pleasure to those who saw the play.

The Plain Clothes Man, presented by Mr. M. A. Ledford, was all that could be wished, and earned for "Mike" the Players badge for which he has waited a long time—ever since his famous characterization of the office boy in "It pays to Advertise." E. T. Campbell showed a marked versatility in taking the part of the crooked mayor, as contrasted to his characterization of the husky furniture mover in "Fair and Warmer."

H. V. White and G. G. Harris, although heretofore unknown to M. S. M. audiences, showed marked whilts in their respective parts and worse well received.

marked ability in their respective parts, and were well received.

"JUST JONES"

A Farce Comedy by George H. Broadhurst. Parker Hall, March 12th and 16th, 1923. Benefit St. Pats Celebration.

Business Staff

Director	H. H. Armsby
Assistant Director	
Business Manager	
Assistant Business Manager	
Stage Manager	G A DOOLEY
Assistant Stage Manager	H. H. KESSLER
Property Manager	E. T. CAMPBELL
Assistant Property Manager	

Cast of Characters

Ebenezer Goodly, a professor of anatomy	D. R. BAKER
Mrs. Goodly, his wife	
Marjorie, his daughter	BERTHA FULTON
Richard Heatherly, Marjorie's fiance	F. Jankosky
Helmar, the Goodly's Swedish maid	
Cissy, the Goodly's ward	MARION FULTON
Percy, the Goodly's son	J. V. TERRILL
Alvina Starlight, Mrs. Goodly's sister	
Jones, who travels for a hymn book house	J. P. GORDON, JR.
Thomas Holder, a police officer	
Anthony Goodly, Bishop of Ballarat	H. V. WHITE
William Bigbee, inmate of a sanitarium	
Henry Fuller, superintendent of sanitarium	W. R. GROSCHAN

Music by Herb Burger's St. Louis Club Orchestra.

This play served its purpose in providing entertainment for the St. Pats guests very well indeed. Its snappy farce and impossible situations were well calculated to infuse fun and laughter into the occasion. The staff is to be congratulated on its choice and management of the play, and the cast could not have been better chosen.

"Pem" Gordon, as Jones, about whom the action of the play is centered, seemed simply to live his part, and Miss Mary Elizabeth Campbell was certainly the "hit" of the piece in her old fashioned dress and curls. Her characterization of the romantic old maid will not be forgotten soon by any in the audience. Mrs. C. E. Stover certainly knew how to manage her docile husband. She also showed, as she has shown numerous times in the past, that she has a very remarkable stage presence and ability. D. R. Baker, as her husband, certainly vindicated the good opinion won for him by his acting in "Seven Keys to Baldpate." Misses Bertha and Marion Fulton have so often captivated M. S. M. audiences that their success in their respective roles, while no surprise to those who had seen them before, was assured after their first lines. Mr. Frank Jankosky, while not cast in a part calculated to afford his talent its fullest development, proved his versatility and justified his place as a prominent figure in M. S. M. theatricals. H. V. White proved an ideal bishop and his acting made the inherently comical predicaments of that personage a source of much laughter and applause from the audience. His war dance, supervised by G. G. Harris, the lunatical "Indian", and his disrabing act created a great deal of diversions. and his disrobing act created a great deal of diversion.

Four new actors were presented at this time. J. V. Terrill, as the prissy Percy, was comical enough to look upon, and when he spoke he proved a "scream" to the audience. Miss Ruth Cameron, as the Swedish maid, gave so much promise that everyone in the audience will be glad to see her take more prominent parts in future plays here. B. Lyons, as the police officer, and W. R. Groschan, as the superintendent of the sanitarium carried their parts well, the latter so well that there was a great deal of sympathy expressed for poor Harris when "Bill" dragged him back to his cell. M. S.

M. audiences will be glad to see more of these new actors.

From the success of the past year it is quite evident that there is much hidden talent about school, and as the system of selection of casts adopted by the Players is calculated to bring this talent before the audiences, we shall hope to see a number of very worth while plays in Parker Hall during the coming season.

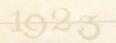
St. Patrick's 1923

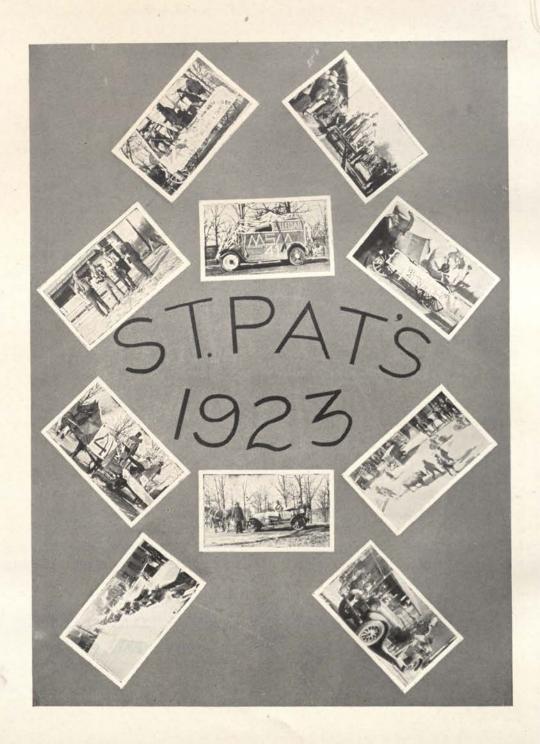
IT was a bright, clear, crisp morning, when all true and loyal engineers paused for a few moments once again in the midst of their daily toil, to pay homage to the coming of the big boss himself, their noble and worthy patron saint—Saint Patrick.

Nobly and well did his chariot grace the silver Frisco highway, as the venerable bard approached Rollie's fair terminal. Here, midst the cheers of mighty multitudes, the old man and his attendants started on their tour of the faire citie, followed by the various gaily-decked caravans of the youngest sons, all desirous of paying the utmost homage to their esteemed patron.

However, the weather man having previously decreed that the old saint should not expose his personage to the elements for any too long a length of time, the party this time proceeded to Parker Hall for the forthcoming knighting ceremonies. It was here for the first time that St. Pat was able to extend his greetings to the school and visitors. There was some talk that at times behind the heavy mossy visage of the old man could be discerned a slight resemblance to Mr. Curt Stover, but this may have been merely the result of some rumor. At this point it was discovered that further continuance of the ceremonies would be impossible, owing to the seeming misplacement of the necessary Blarney Stone. As luck would have it, however, the arrival of an old prospector fresh from the trail solved the problem, for by means of a slight amount of forced persuasion on the part of two police officers he yielded up the precious gem. In due form St. Pat presented each of his senior sons with pin and patent, and after numerous fatherly reprimands, kowtows, and smacks at the Blarney Stone, the last one was told to "begone" in a sonorous voice, and the ceremony ended.

That night St. Pat's ball rivaled in splendor all those of his previous comings. The gym had been transformed into a place of mystic wonder, of shamrocks, etc., in their own rustic setting, which, together with a charming series of shadow and color combination lighting effects, completely banished thoughts of the remaining cold and dark outside world from the minds of the gay participants. At about eleven-thirty St. Pat himself appeared on the scene and commanded the crowd to kow-tow. He then began his stately march down the aisle and took his place on the throne. In a short time he was followed by Miss Hazel Dent-St. Pat's Queen, 1921, Miss Bertha Fulton, and the maids of honor, Miss Helen Underwood and Miss Marion Fulton, each with her respective escorts. It was then that St. Pat commanded the crowd to kow-tow in honor of the Queen, who approached up the aisle. However, the crowd refused to remain kow-towed at so magnificent a queen as Mrs. Curtis Edward Stover. She moved on down the aisle until she came to the throne, before which she knelt and was officially crowned Queen of the 1923 St. Pat's celebration, by the Patron Saint himself. Following the ceremony dancing was then resumed and continued until five o'clock Saturday morning.







ST. PATRICK DANCE SCENE

The Freshman Smoker

THE freshmen kissed their green caps good-bye as they tossed them in the large bonfire at the beginning of the Thanksgiving holidays. After that their attitude toward the school and upperclassman was entirely changed, as they were then treated like "white folks," and were able to wear real John B's. They were recognized on the street, and respected more among the upperclassmen. In appreciation of these facts the Freshman Class gave an entertainment in the form of a "Smoker". This most excellent affair was held on Saturday, December 16, and the attendance was over 99.99 per cent. The talent was brought from St. Louis, but before discussing this we must bring in all of the points that helped make up the program.

The smoker began at nine o'clock sharp. The boxing ring was surrounded by four rows of seats, so that all guests could enjoy the entertainment. The usual passing of the pipe of peace was done away with, and cigars and cigarettes were passed instead, so that all could enjoy longer "smokes". The program began with the singing of the school song, "The Mining Engineer," and a speech from Professor Armsby in which he let the boys know that all was well.

Hershowitz and Stogsdill then had a two-round encounter, and although there were no knock-downs each received several hard punches. This was a "red hot" bout and was enjoyed by all. Following this, Schramm and Richardson wrestled two rounds. This was a very even and exciting match. Both boys showed much skill. Seivers and Birchard ended the athletic part of the program with a two-round boxing match, which showed that both freshmen had the right pep and spirit.

The classical events began with an interpretation of the "Scandals of 1922," by Jankosky and Gordon. With the aid of Jankosky, Pem showed a wonderful power in reading the mind. Although many secrets of certain members of the school were unveiled, the men received applause from all parts of the audience.

The real entertainment now began, when Mr. Abie Goldstein, from St. Louis, was introduced. His repertoire, consisting of many jokes and funny stories, brought down the house. The audience was then entertained for the rest of the evening by the actresses. Different acts of vaudeville, consisting of various methods of dancing, both classical and otherwise, the singing of the most popular songs, interspersed with other kind of entertainment, made up this part of the program.

The smoker was up to the standard of those presented in the past, and was therefore a success in every sense of the word.

Geology Grip

THE party of geologists, and otherwise, that did such noble work in mapping the area around St. Clair, Mo., during the month of May, 1922, consisted of Charley Dake, Jim Jewell, Felix Meeks, "Polar Bear" Campbell, Willard Lay, "Doc" Ten Eyck, "Crime Wave" Terrill, Shorty Mulford, Joe Wanenmacher, Bruno Rixleben, Paul Fisher, Bill Backer, Elby Fipps, Herman Valentine, John Burley, and last, but not least, Sam Winfrey, our able cook, and his assistant Henry.

During the first part of our trip we stayed in the old bunkhouse at Northumberland Mines, near St. Clair. Using this as our headquarters we mapped the area around St. Clair and toward Union. Part of this work was done by parties of two, and the rest by the whole gang working together. Owing to the lack of a good topog base to work from, the results were not all that could be desired. From the students point of view, however, all of us learned something. We all learned the principles of geologic mapping, and a great many of us ascertained that we did not want to become geologists.

Two side trips were made, one to Pacific and vicinity, and the other to Moselle and Union. The first was made May 5, and was enjoyed by all but Mulford and Wanenmacher, as they lost a Gurley compass when they hopped a freight for St. Clair on the way back. After inspecting the quarries of St. Peter sandstone at Pacific, we took a little trip back in the hills, studying some formations we had not seen before. After crossing the Meremac and climbing Fern Hill we headed back for town to catch our train. We were a little late getting out to camp, but our supper tasted all the better for it.

The next night a bunch of us went into town to a dance, given in the new shoe factory for the benefit of the St. Clair Fire Fighters. We succeeded in eclipsing the local youths in the favor of the fair sex of the village, especially our "Indian Surveyor" Bruno Rixleben.

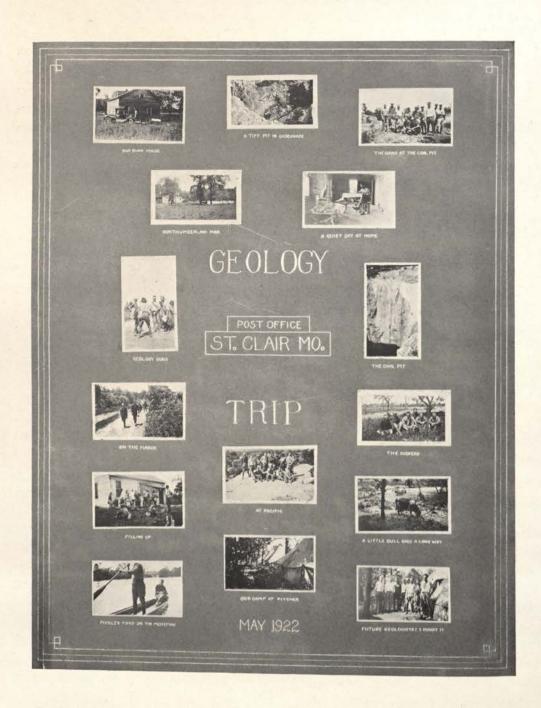
The last part of our work was done from our camp on the Pitcher Lead Company's property near Anaconda. Mr. Corbett, the engineer in charge of the mine, treated us like princes, going a good deal out of his way to do us favors, which were surely appreciated. One interesting trip we took from this camp was to a coal pit near Anaconda. The pit is over a hundred feet deep and about fifty yards across and solid coal without a bedding plane. We could not figure it out and gave it up as a bad job. Joe Wanenmacher gave us his explanation, but we decided it would not hold water.

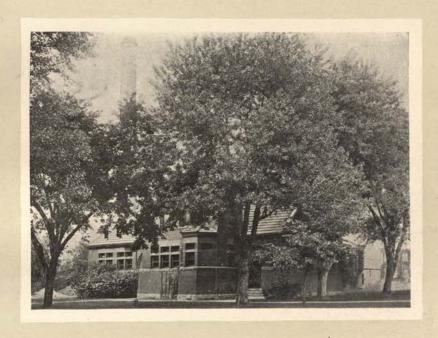
On May 25 we took a trip across the Meremac for the first time. We had lots of fun getting across, as the current was swift and our boat sluggish, but after about an hour's struggle we all got over, although three of us got wet doing it. Coming back Elby Fipps lost his shoes and puttees, and almost lost his watch, trying to ford the river.

Our trip ended officially May 26, and most of us were glad when Number 7 pulled into Rolla that night. On the whole our trip was a success and was enjoyed by all. Of course there was a lot of "crabbing", but I believe that the fun most of us got out of it more than balanced the "hardships" and the work.

Rollamo

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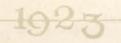


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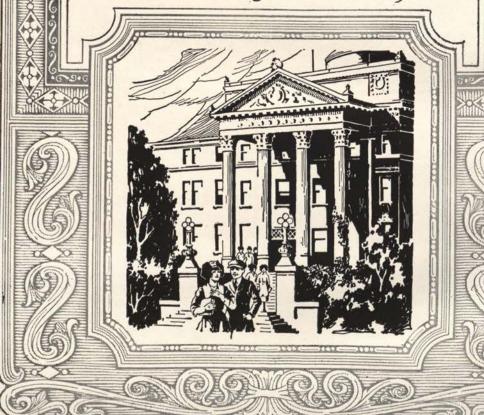
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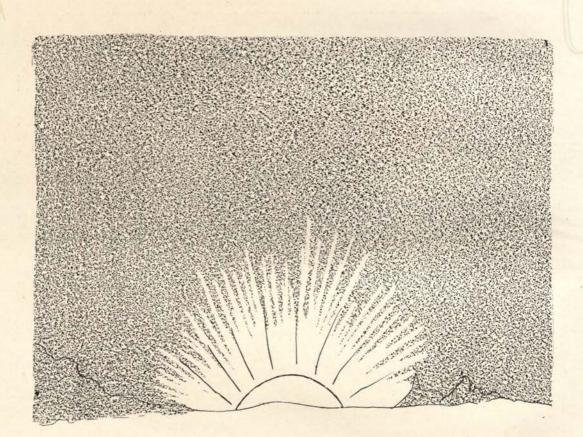
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